



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 200864

TO: CECILIA JAISLE
Location: REM-5A28&5C18
Art Unit: 1624
Tuesday, September 12, 2006
Case Serial Number: 10/540040

From: Usha Shrestha
Location: Biotech-Chem Library
REM-1A64
Phone: (571)272-3519

Usha.shrestha@uspto.gov

Search Notes

Examiner JAISLE,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Usha Shrestha
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-3519

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STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact:*

Mary Hale, Information Branch Supervisor
571-272-2507 Remsen 1 A51

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library Remsen Bldg.

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ACCESS DB # 200864
PLEASE PRINT CLEARLY

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Cecilia Jaisle Examiner #: 82613 Date: 9/7/06
Art Unit: 1624 Phone Number: 2-9931 Serial Number: 10540040
Location (Bldg/Room#): REM5A28 (Mailbox #): 5018 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: See Bib Data Sheet
Inventors (please provide full names): "

Earliest Priority Date: "

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

See claims attached. Please do structure search and inventor name(s) search.

Claims have been restricted. Only search claims 1-9.

Note that at least one of R^1 & R^2 must be NR^3R^4 . Also search excluded compounds of last two lines of claim 1.

Thank you!

Please call with any questions

STAFF USE ONLY

Searcher: ush

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: 9/12/06

Date Completed: 9/12/06

Searcher Prep & Review Time: 60

Online Time: 90

Type of Search

____ NA Sequence (#)

____ AA Sequence (#)

3 Structure (#)

____ Bibliographic

____ Litigation

____ Fulltext

____ Other

Vendors and cost where applicable

\$686.17 BTN

____ Dialog

____ Questel/Orbit

____ Lexis/Nexis

____ Westlaw

____ WWW/Internet

____ In-house sequence systems

____ Commercial

____ Oligomer

____ Score/Length

____ Interference

____ SPDI

____ Encode/Transl

____ Other (specify)

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FILE 'REGISTRY' ENTERED AT 09:58:22 ON 12 SEP 2006

=> d his

FILE 'HCAPLUS' ENTERED AT 08:35:53 ON 12 SEP 2006

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E WO2002-GB05273/PN,AP,PRN

E WO2003-GB5273/PN,AP,PRN

L1 1 S E4-E5
L2 207 S CROWLEY P?/AU
L3 154 S DOBLER M?/AU
L4 1853 S MUELLER U?/AU
L5 11787 S WILLIAMS J?/AU
L6 6 S L2 AND L3 AND L4 AND L5

FILE 'REGISTRY' ENTERED AT 08:40:48 ON 12 SEP 2006

L7 24 S E1-E24
L8 STR
L9 SCR 1995
L10 STR L8
L11 STR L10
L12 20 S (L10 OR L11) AND L9
L13 24038 S 591.304/RID
L14 0 S L10
L15 1 S L7 AND 6-CHLORO?
L16 1798 S 591.337/RID
L17 4 S L7 AND L16
L18 25836 S L13 OR L16
L19 50 S (L10 OR L11) SAM SUB=L18
L20 1513 S (L10 OR L11) FUL SUB=L18
L21 4 S L20 AND L7
SAV JAI040/A L20

FILE 'HCAPLUS' ENTERED AT 09:14:00 ON 12 SEP 2006

L22 1 S L21
L23 188 S L20

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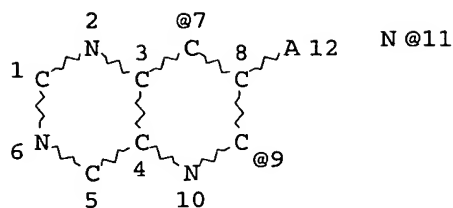
L24 STR L11
L25 0 S L24 SAM SUB=L20
L26 0 S L24 FUL SUB=L20

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L27 8 S L23 AND (FUNGI? OR AGROCHEM?)
L28 147 S L23 AND PREP/RL
L29 139 S L23 (L) PREP/RL
L30 6 S L29 AND AGR/RL
L31 6 S L23 AND AGR/RL
L32 12 S L22 OR L27 OR L30-L31
L33 114 S L29 AND (1840-2002)/PRY,AY,PY
L34 98 S L33 AND HETEROCYC?/SC
L35 35 S L34 AND BIOL/RL
L36 39 S L32 OR L35
L37 5 S L6 NOT L36

=> d que l26

L10 STR



VPA 11-9/7 U

NODE ATTRIBUTES:

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NSPEC IS RC AT 12

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

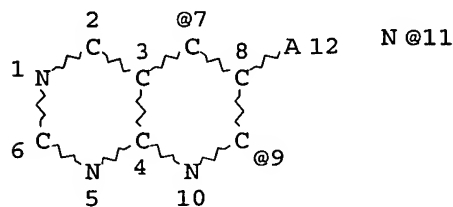
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NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L11 STR



VPA 11-9/7 U

NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

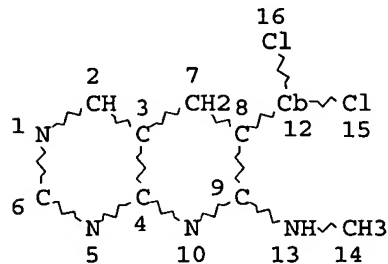
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L16 1798 SEA FILE=REGISTRY ABB=ON 591.337/RID

L18 25836 SEA FILE=REGISTRY ABB=ON L13 OR L16

L20 1513 SEA FILE=REGISTRY SUB=L18 SSS FUL (L10 OR L11)

L24 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY AT 12

DEFAULT ECLEVEL IS LIMITED

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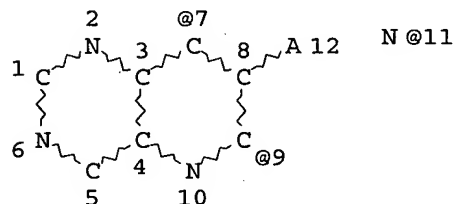
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=> d que 136

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 65717-13-7/BI OR 714963-55-0/BI OR 714975-46-9/BI OR
 714975-47-0/BI OR 714975-48-1/BI OR 714975-49-2/BI OR
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 714975-53-8/BI OR 714975-54-9/BI OR 714975-55-0/BI OR
 714975-56-1/BI OR 714975-57-2/BI OR 714975-58-3/BI OR
 75-31-0/BI)
 L10 STR



VPA 11-9/7 U

NODE ATTRIBUTES:

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DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

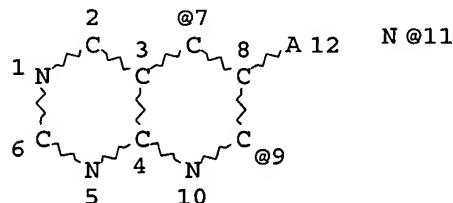
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NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L11 STR



VPA 11-9/7 U

NODE ATTRIBUTES:

NSPEC IS RC AT 11

NSPEC IS RC AT 12

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L13 24038 SEA FILE=REGISTRY ABB=ON 591.304/RID
L16 1798 SEA FILE=REGISTRY ABB=ON 591.337/RID
L18 25836 SEA FILE=REGISTRY ABB=ON L13 OR L16
L20 1513 SEA FILE=REGISTRY SUB=L18 SSS FUL (L10 OR L11)
L21 4 SEA FILE=REGISTRY ABB=ON L20 AND L7
L22 1 SEA FILE=HCAPLUS ABB=ON L21
L23 188 SEA FILE=HCAPLUS ABB=ON L20
L27 8 SEA FILE=HCAPLUS ABB=ON L23 AND (FUNGI? OR AGROCHEM?)

L29 139 SEA FILE=HCAPLUS ABB=ON L23 (L) PREP/RL
L30 6 SEA FILE=HCAPLUS ABB=ON L29 AND AGR/RL
L31 6 SEA FILE=HCAPLUS ABB=ON L23 AND AGR/RL
L32 12 SEA FILE=HCAPLUS ABB=ON L22 OR L27 OR (L30 OR L31)
L33 114 SEA FILE=HCAPLUS ABB=ON L29 AND (1840-2002)/PRY,AY,PY

L34 98 SEA FILE=HCAPLUS ABB=ON L33 AND HETEROCYC?/SC
L35 35 SEA FILE=HCAPLUS ABB=ON L34 AND BIOL/RL
L36 39 SEA FILE=HCAPLUS ABB=ON L32 OR L35

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 09:59:03 ON 12 SEP 2006

=> d 137 1-5 all

L37 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1354846 HCAPLUS
DN 144:88319
ED Entered STN: 30 Dec 2005
TI Preparation of pyrido[2,3-b]pyrazine derivatives for combating
phytopathogenic fungi
IN Crowley, Patrick Jelf; Mueller, Urs;
Dobler, Markus; Williams, John
PA Syngenta Participations AG, Switz.; Syngenta Limited
SO PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07D471-04
ICS A01N043-90
CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005123733	A1	20051229	WO 2005-EP6706	2005 0621

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,
ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,

KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG,
 PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH,
 CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,
 LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF,
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI GB 2004-13953

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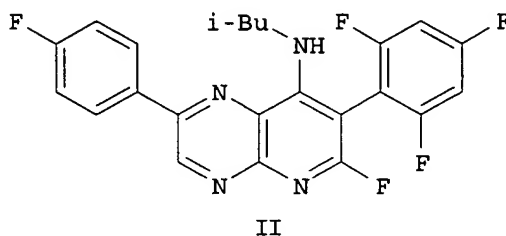
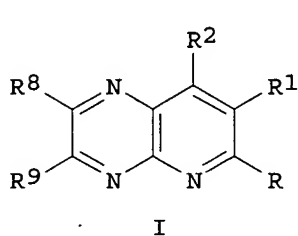
20040622

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005123733	ICM	C07D471-04
	ICS	A01N043-90
	IPCI	C07D0471-04 [ICM, 7]; C07D0471-00 [ICM, 7, C*]; A01N0043-90 [ICS, 7]

OS MARPAT 144:88319

GI



AB Title compds. represented by the formula I [wherein R = H, halo, (halo)alkyl, etc.; R¹ = (hetero)aryl, arylalkyl, heteroarylthio, etc.; R² = halo or (un)substituted amino; R⁸, R⁹ = H, halo, alkoxy, (cyclo)alkyl, etc.; or R⁸R⁹ = (un)saturated (hetero)cyclyl] were prepared as phytopathogenic fungicides. For example, II was provided in a multi-step synthesis starting from Me 3-amino-6-bromopyrazine-2-carboxylate. II showed fungicidal activity with 60% control of *Pyricularia oryzae*. Thus, I and their plant fungicidal compns. are useful for controlling phytopathogenic fungi.

ST pyridopyrazine prepn phytopathogenic fungicide

IT Fungicides

(agrochem.; preparation of pyrido[2,3-b]pyrazinyl amine derivs. for combating phytopathogenic fungi)

IT Phytopathogenic fungi

(preparation of pyrido[2,3-b]pyrazinyl amine derivs. for combating phytopathogenic fungi)

IT 872088-73-8P, (1,2-Dimethylpropyl) [6-fluoro-2-(4-fluorophenyl)-7-(2,4,6-trifluorophenyl)pyrido[2,3-b]pyrazin-8-yl]amine

872088-82-9P 872088-83-0P 872088-84-1P 872088-85-2P

872088-86-3P 872088-87-4P

(preparation of pyrido[2,3-b]pyrazinyl amine derivs. for combating phytopathogenic fungi)

IT 598-74-3, 1,2-Dimethylpropylamine 1765-93-1,

4-Fluorophenylboronic acid 6966-01-4, 3-Amino-6-bromopyrazine-2-carboxylic acid methyl ester 714963-55-0

(preparation of pyrido[2,3-b]pyrazinyl amine derivs. for combating
phytopathogenic fungi)

IT 872088-74-9P, 3-Amino-6-(4-fluorophenyl)pyrazine-2-carboxylic acid
methyl ester 872088-75-0P, 6-(4-Fluorophenyl)-3-[[2-(2,4,6-
trifluorophenyl)acetyl]amino]pyrazine-2-carboxylic acid methyl
ester 872088-76-1P, 2-(4-Fluorophenyl)-8-hydroxy-7-(2,4,6-
trifluorophenyl)-5H-pyrido[2,3-b]pyrazin-6-one 872088-77-2P,
2-Phenyl-8-hydroxy-7-(2,4,6-trifluorophenyl)-5H-pyrido[2,3-
b]pyrazin-6-one 872088-78-3P, 6,8-Dichloro-2-(4-fluorophenyl)-7-
(2,4,6-trifluorophenyl)pyrido[2,3-b]pyrazine 872088-79-4P,
6,8-Dichloro-2-phenyl-7-(2,4,6-trifluorophenyl)pyrido[2,3-
b]pyrazine 872088-80-7P, 6,8-Difluoro-2-(4-fluorophenyl)-7-
(2,4,6-trifluorophenyl)pyrido[2,3-b]pyrazine 872088-81-8P,
6,8-Difluoro-2-phenyl-7-(2,4,6-trifluorophenyl)pyrido[2,3-
b]pyrazine

(preparation of pyrido[2,3-b]pyrazinyl amine derivs. for combating
phytopathogenic fungi)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Basf Aktiengesellschaft; EP 0275520 A 1988 HCAPLUS
- (2) Carrol, T; JOURNAL OF MEDICINAL CHEMISTRY 1970, V13(5), P853
- (3) Crowley, P; WO 2004056825 A 2004 HCAPLUS
- (4) Denzel; US 3984412 A 1976 HCAPLUS
- (5) Wagner, O; WO 2005010000 A 2005 HCAPLUS

L37 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:1354789 HCAPLUS

DN 144:88318

ED Entered STN: 30 Dec 2005

TI Preparation of pyrido[2,3-b]pyrazine-8-amine derivatives as
phytopathogenic fungicides

IN Crowley, Patrick Jelf; Mueller, Urs;

Dobler, Markus; Williams, John

PA Syngenta Participations AG, Switz.; Syngenta Limited

SO PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D241-36

ICS A01N043-60

CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005123698	A1	20051229	WO 2005-EP6687	

2005

0621

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
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ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH,
CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,
LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF,

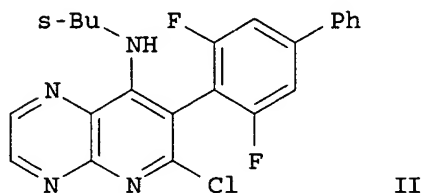
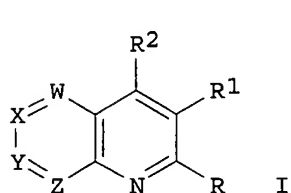
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 PRAI GB 2004-13955 A 20040622

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005123698	ICM	C07D241-36
	ICS	A01N043-60
	IPCI	C07D0241-36 [ICM,7]; C07D0241-00 [ICM,7,C*]; A01N0043-60 [ICS,7]; A01N0043-48 [ICS,7,C*]

OS MARPAT 144:88318

GI



- AB Title compds. represented by the formula I [wherein W, X, Y, Z = N or CR₈; R = H, halo, (halo)alkyl, etc.; R₁ = (hetero)aryl, arylalkyl, heteroarylthio, etc.; R₂ = halo or (un)substituted amino; R₈ = H, halo, alkyl(thio)] were prepared as phytopathogenic fungicides. For example, II was provided in a multi-step synthesis starting from 2,6-difluoro-4-bromobenzyl alc. II showed fungicidal activity with 60% control of *Pyricularia oryzae* and *Septoria tritici*. Thus, I and their plant fungicidal compns. are useful for controlling phytopathogenic fungi.
- ST pyridopyrazine prepn phytopathogenic fungicide
- IT Fungicides
 (agrochem.; preparation of pyrido[2,3-b]pyrazine-8-amine derivs. as phytopathogenic fungicides)
- IT Phytopathogenic fungi
 (preparation of pyrido[2,3-b]pyrazine-8-amine derivs. as phytopathogenic fungicides)
- IT 872089-11-7P, sec-Butyl[6-chloro-7-[4-(4-fluorophenyl)-2,6-difluorophenyl]pyrido[2,3-b]pyrazin-8-yl]amine 872089-18-4P, sec-Butyl[6-chloro-7-(4-phenyl-2,6-difluorophenyl)pyrido[2,3-b]pyrazin-8-yl]amine 872089-19-5P, sec-Butyl[6-chloro-7-[4-[(4-methylphenyl)ethynyl]-2,6-difluorophenyl]pyrido[2,3-b]pyrazin-8-yl]amine
 (preparation of pyrido[2,3-b]pyrazine-8-amine derivs. as phytopathogenic fungicides)
- IT 98-80-6, Phenylboronic acid 766-97-2, 4-Methylphenylacetylene 1765-93-1, 4-Fluorophenylboronic acid 13952-84-6, sec-Butylamine 162744-59-4, 2,6-Difluoro-4-bromobenzyl alcohol 872089-14-0, Methyl 2-aminopyrazine-1-carboxylate
 (preparation of pyrido[2,3-b]pyrazine-8-amine derivs. as phytopathogenic fungicides)
- IT 537033-52-6P, 2,6-Difluoro-4-bromobenzyl cyanide 537033-54-8P, (2,6-Difluoro-4-bromophenyl)acetic acid 869361-54-6P 872089-12-8P, [2,6-Difluoro-4-bromophenyl]acetyl chloride 872089-13-9P, Methyl 3-[[2-(4-bromo-2,6-difluorophenyl)-1-oxo-ethyl]amino]pyrazine-2-carboxylate 872089-15-1P, 7-(4-Bromo-2,6-difluorophenyl)-8-hydroxy-5H-pyrido[2,3-b]pyrazin-6-one 872089-16-2P, 7-(4-Bromo-2,6-difluorophenyl)-6,8-

dichloropyrido[2,3-b]pyrazine 872089-17-3P, [7-(4-Bromo-2,6-difluorophenyl)-6-chloropyrido[2,3-b]pyrazin-8-yl]-sec-butylamine (preparation of pyrido[2,3-b]pyrazine-8-amine derivs. as phytopathogenic fungicides)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Crowley, P; WO 2004056824 A 2004 HCAPLUS
- (2) Crowley, P; WO 2004056825 A 2004 HCAPLUS
- (3) Crowley, P; WO 2004056826 A 2004 HCAPLUS
- (4) Crowley, P; WO 2004056829 A 2004 HCAPLUS
- (5) Graf; US 4801592 A 1989 HCAPLUS

L37 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:546509 HCAPLUS

DN 141:89107

ED Entered STN: 08 Jul 2004

TI A preparation of pyrido[2,3-e][1,2,4]triazine derivatives, useful as plant fungicides

IN Crowley, Patrick Jelf; Dobler, Markus; Mueller, Urs; Williams, John

PA Syngenta Limited, UK; Syngenta Participations A.-G.

SO PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D487-04

ICS A01N043-90

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056829	A1	20040708	WO 2003-GB5261	2003 1203

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2510376 AA 20040708 CA 2003-2510376

2003
1203

AU 2003288412 A1 20040714 AU 2003-288412

2003
1203

EP 1575956 A1 20050921 EP 2003-780333

2003
1203

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003017728	A	20051122	BR 2003-17728	2003 1203
CN 1729194	A	20060201	CN 2003-80107318	2003 1203
JP 2006516130	T2	20060622	JP 2004-561604	2003 1203
ZA 2005004297	A	20051128	ZA 2005-4297	2005 0526
US 2006100203	A1	20060511	US 2005-540039	2005 0622
PRAI GB 2002-30021	A	20021223		
WO 2003-GB5261	W	20031203		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004056829	ICM	C07D487-04
	ICS	A01N0043-90
	IPCI	C07D0487-04 [ICM,7]; C07D0487-00 [ICM,7,C*]; A01N0043-90 [ICS,7]
	IPCR	C07D0471-00 [I,C*]; C07D0471-04 [I,A]
	ECLA	C07D471/04+253B+221B
CA 2510376	IPCI	C07D0487-04 [ICM,7]; C07D0487-00 [ICM,7,C*]; A01N0043-90 [ICS,7]
	IPCR	C07D0471-00 [I,C*]; C07D0471-04 [I,A]
	ECLA	C07D471/04+253B+221B
AU 2003288412	IPCI	C07D0487-04 [ICM,7]; C07D0487-00 [ICM,7,C*]; A01N0043-90 [ICS,7]
	IPCR	C07D0471-00 [I,C*]; C07D0471-04 [I,A]
EP 1575956	IPCI	C07D0487-04 [ICM,7]; C07D0487-00 [ICM,7,C*]; A01N0043-90 [ICS,7]
	IPCR	C07D0471-00 [I,C*]; C07D0471-04 [I,A]
	ECLA	C07D471/04+253B+221B
BR 2003017728	IPCI	C07D0487-04 [ICM,7]; C07D0487-00 [ICM,7,C*]; A01N0043-90 [ICS,7]
	ECLA	C07D471/04+253B+221B
CN 1729194	IPCI	C07D0487-04 [I,A]; C07D0487-00 [I,C*]; A01N0043-90 [I,A]
	ECLA	C07D471/04+253B+221B
JP 2006516130	IPCI	C07D0471-04 [I,A]; C07D0471-00 [I,C*]; A01N0043-707 [I,A]; A01N0043-64 [I,C*]; A01N0025-02 [I,A]; A01P0003-00 [I,A]
	FTERM	4C065/AA04; 4C065/BB08; 4C065/CC01; 4C065/DD04; 4C065/EE02; 4C065/HH03; 4C065/JJ06; 4C065/KK01; 4C065/PP03; 4H011/AA03; 4H011/BA01; 4H011/BB09; 4H011/BC01; 4H011/BC03; 4H011/BC04; 4H011/BC18; 4H011/DA02; 4H011/DA13; 4H011/DA14; 4H011/DA16; 4H011/DD03; 4H011/DD04; 4H011/DE15
ZA 2005004297	IPCI	A01N [ICS,7]; C07D [ICS,7]
	IPCR	C07D0471-00 [I,C*]; C07D0471-04 [I,A]
	ECLA	C07D471/04+253B+221B
US 2006100203	IPCI	A01N0043-90 [I,A]; A01N0043-42 [I,A]; A01N0043-34 [I,C*]
	NCL	514/230.500; 514/264.100; 514/300.000; 514/311.000; 544/279.000; 546/122.000; 546/153.000

ECLA C07D471/04+253B+221B
OS MARPAT 141:89107
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
*

AB The invention relates to a preparation of pyrido[2,3-e][1,2,4]triazine derivs. of formula I [wherein: W, Z and one of X and Y is N and the other is CH, C-halo, etc.; R and R2 are independently H, halo, alkyl, or alkoxy, etc.; R1 is halo, alkyl, or alk(en/yn)yl, etc.], useful as plant fungicides. For instance, a 1:1 mixture of pyridotriazine derivs. II (R3 = Cl; R4 = i-PrNH) and II (R3 = i-PrNH, R4 = Cl) was prepared via amination of triazine derivative III (R5 = H), amidation of 2-Cl-6-FC6H4CH2C(O)Cl by the obtained amine III (R5 = NH2), intramol. heterocyclization of the obtained acetylaminotriazine derivative III [R5 = 2-Cl-6-FC6H4CH2C(O)NH], chlorination/aromatization of the obtained pyridotriazinedione derivative IV, and subsequent amination of 6,8-dichloropyridotriazine derivative by i-PrNH2. For instance, pyridotriazine derivative V gave greater than 60% control of disease (Erysiphe graminis f. sp. hordei).

ST pyridotriazine prepn plant fungicide; chloro triazine amination
amidation phenylacetyl chloride heterocyclization

IT Fungicides
(agrochem.; preparation of fungicidal pyridotriazine derivs. from triazine derivs.)

IT Amination
Chlorination
Heterocyclization
(preparation of fungicidal pyridotriazine derivs. from triazine derivs.)

IT 30855-52-8P 716338-57-7P 716338-58-8P 716338-59-9P
716338-60-2P 716338-66-8P 716338-70-4P 716338-71-5P
716338-72-6P 716338-73-7P
(intermediate; preparation of fungicidal pyridotriazine derivs. from triazine derivs.)

IT 254-97-7DP, Pyrido[2,3-e][1,2,4]-triazine, derivs.
(preparation of fungicidal pyridotriazine derivs. from triazine derivs.)

IT 716338-61-3P 716338-62-4P 716338-63-5P 716338-64-6P
716338-67-9P 716338-68-0P 716338-74-8P 716338-75-9P
716338-76-0P 716338-77-1P 716338-78-2P 716338-79-3P
716338-80-6P 716338-81-7P 716338-82-8P 716338-83-9P
716338-84-0P 716338-85-1P
(preparation of fungicidal pyridotriazine derivs. from triazine derivs.)

IT 290-38-0DP, [1,2,4]-Triazine, derivs.
(preparation of fungicidal pyridotriazine derivs. from triazine derivs.)

IT 75-31-0, 2-Propanamine, reactions 149-73-5,
Trimethylorthoformate 5413-85-4 179314-61-5 714963-55-0
716338-65-7 716338-69-1
(reactant; preparation of fungicidal pyridotriazine derivs. from triazine derivs.)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Bernd-Wieland, K; WO 02088125 A 2002
 (2) Wieland, K; WO 02088126 A 2002

L37 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:546507 HCAPLUS
 DN 141:89117
 ED Entered STN: 08 Jul 2004
 TI A preparation of pyridodiazine derivatives, useful as plant fungicides
 IN Crowley, Patrick Jelf; Dobler, Markus; Mueller, Urs; Williams, John
 PA Syngenta Limited, UK; Syngenta Participations A.-G.
 SO PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07D471-04
 ICS A01N043-90
 CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5

FAN.CNT 1

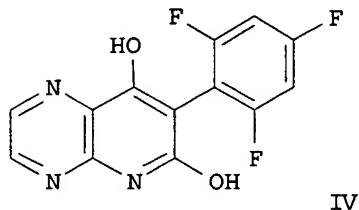
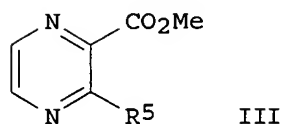
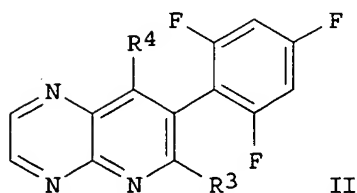
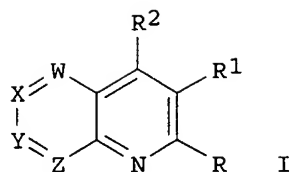
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056825	A1	20040708	WO 2003-GB5250	2003 1203
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CA 2509451	AA	20040708	CA 2003-2509451	2003 1203
AU 2003288410	A1	20040714	AU 2003-288410	2003 1203
EP 1575948	A1	20050921	EP 2003-780329	2003 1203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003017678	A	20051129	BR 2003-17678	2003 1203
CN 1732168	A	20060208	CN 2003-80107398	2003 1203
JP 2006516129	T2	20060622	JP 2004-561603	2003 1203

PRAI GB 2002-30020
WO 2003-GB5250

A 20021223
W 20031203

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004056825	ICM	C07D471-04
	ICS	A01N0043-90
	IPCI	C07D0471-04 [ICM, 7]; C07D0471-00 [ICM, 7, C*]; A01N0043-90 [ICS, 7]
	IPCR	C07D0471-00 [I, C*]; C07D0471-04 [I, A]
	ECLA	C07D471/04; C07D471/04+237B+221B; C07D471/04+241B+221B
CA 2509451	IPCI	C07D0471-04 [ICM, 7]; C07D0471-00 [ICM, 7, C*]; A01N0043-90 [ICS, 7]
	IPCR	C07D0471-00 [I, C*]; C07D0471-04 [I, A]
	ECLA	C07D471/04; C07D471/04+237B+221B; C07D471/04+241B+221B
AU 2003288410	IPCI	C07D0471-04 [ICM, 7]; C07D0471-00 [ICM, 7, C*]; A01N0043-90 [ICS, 7]
	IPCR	C07D0471-00 [I, C*]; C07D0471-04 [I, A]
EP 1575948	IPCI	C07D0471-04 [ICM, 7]; C07D0471-00 [ICM, 7, C*]; A01N0043-90 [ICS, 7]
	IPCR	C07D0471-00 [I, C*]; C07D0471-04 [I, A]
	ECLA	C07D471/04; C07D471/04+237B+221B; C07D471/04+241B+221B
BR 2003017678	IPCI	C07D0471-04 [ICM, 7]; C07D0471-00 [ICM, 7, C*]; A01N0043-90 [ICS, 7]
	ECLA	C07D471/04; C07D471/04+237B+221B; C07D471/04+241B+221B
CN 1732168	IPCI	C07D0471-04 [I, A]; C07D0471-00 [I, C*]; A01N0043-90 [I, A]
	ECLA	C07D471/04; C07D471/04+237B+221B; C07D471/04+241B+221B
JP 2006516129	IPCI	C07D0471-04 [I, A]; C07D0471-00 [I, C*]; C07D0241-28 [I, A]; C07D0241-00 [I, C*]; C07D0237-24 [I, A]; C07D0237-00 [I, C*]; A01N0043-90 [I, A]; A01P0003-00 [I, A]
	FTERM	4C065/AA04; 4C065/BB10; 4C065/BB12; 4C065/CC01; 4C065/DD03; 4C065/EE02; 4C065/HH03; 4C065/JJ02; 4C065/JJ07; 4C065/JJ08; 4C065/KK01; 4C065/LL01; 4C065/PP03; 4C065/PP04; 4C065/PP10; 4C065/PP13; 4C065/PP15; 4C065/PP16; 4H011/AA01; 4H011/BA01; 4H011/BB09; 4H011/BC03; 4H011/BC18; 4H011/DA02; 4H011/DA15; 4H011/DA16; 4H011/DC05; 4H011/DC06; 4H011/DD03; 4H011/DD04
OS	MARPAT 141:89117	
GI		



- AB The invention relates to a preparation of pyridodiazine derivs. of formula I [wherein: W and X, W and Z, X and Y or Y and Z are N and the other two are CH, C-halo, or C-alkyl, etc.; R and R2 are independently H, halo, alkyl, alkoxy, or alkylthio, etc.; R1 is halo, (cyclo)alkyl, alk(en/yn)yl, or (hetero)aryl, etc.], useful as plant fungicides. For instance, pyridopyrazine derivs. II (R3 = Cl; R4 = i-PrNH; > 60% control of disease, phytophthora infestans) and II (R3 = i-PrNH, R4 = Cl) was prepared via amidation of 2,4,6-trifluorophenylacetyl chloride by aminopyrazine derivative III (R5 = NH2), intramol. heterocyclization of the obtained acetylaminopyrazine derivative III [R5 = 2,4,6-trifluoro-C6H4CH2C(O)NH], chlorination of the obtained dihydroxypyridopyrazine derivative IV, and subsequent amination of 6,8-dichloropyridopyrazine derivative by i-PrNH2.
- ST pyridodiazine prepn plant fungicide; pyridopyrazine prepn plant fungicide; aminopyrazine phenylacetylation phenylacetyl chloride heterocyclization
- IT Fungicides
(agrochem.; preparation of fungicidal pyridodiazine derivs. from diazines)
- IT Heterocyclic compounds
(nitrogen, aromatic; preparation of fungicidal pyridodiazine derivs. from diazines)
- IT Amination
Chlorination
Heterocyclization
(preparation of fungicidal pyridodiazine derivs. from diazines)
- IT 716324-84-4P 716324-85-5P 716324-86-6P 716324-88-8P
716324-91-3P 716324-92-4P 716324-94-6P 716324-97-9P
716324-98-0P 716324-99-1P 716325-02-9P 716325-03-0P
716325-04-1P 716325-05-2P
(intermediate; preparation of fungicidal pyridodiazine derivs. from diazines)
- IT 716324-82-2P 716324-83-3P 716324-87-7P 716324-89-9P
716324-90-2P 716324-95-7P 716324-96-8P 716325-00-7P
716325-01-8P 716325-06-3P 716325-07-4P 716325-09-6P
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 716326-00-0P 716326-01-1P 716326-02-2P 716326-03-3P
 716326-04-4P

(preparation of fungicidal pyridodiazine derivs. from diazines)

IT 290-37-9DP, Pyrazine, derivs. 716324-93-5P

(preparation of fungicidal pyridodiazine derivs. from diazines)

IT 75-31-0, 2-Propanamine, reactions 16298-03-6 20865-26-3

21141-03-7 21579-38-4 714963-55-0

(reactant; preparation of fungicidal pyridodiazine derivs. from diazines)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ammermann, E; WO 02083676 A 2002 HCAPLUS
- (2) Anon; CROAT CHEM ACTA 1972, V44, P419
- (3) Basf Ag; EP 1249452 A 2002 HCAPLUS
- (4) Braun, P; US 5821244 A 1998 HCAPLUS
- (5) Squibb & Sons Inc; GB 1431063 A 1976 HCAPLUS

L37 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:546506 HCAPLUS

DN 141:89023

ED Entered STN: 08 Jul 2004

TI A preparation of naphthyridine derivatives, useful as plant fungicides

IN **Crowley, Patrick Jelf; Dobler, Markus; Mueller, Urs; Williams, John**

PA Syngenta Limited, UK; Syngenta Participations A.-G.

SO PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D471-04

ICS A01N043-90

CC 27-18 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004056824	A2	20040708	WO 2003-GB5248	

2003

1203

WO 2004056824 A3 20041014
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,
 ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
 KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
 MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
 RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT,
 TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW,
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 CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
 NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
 GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2507670 AA 20040708 CA 2003-2507670

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1203

AU 2003292381 A1 20040714 AU 2003-292381

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EP 1585746 A2 20051019 EP 2003-767958

2003

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
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 EE, HU, SK

BR 2003017724 A 20051122 BR 2003-17724

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CN 1732169 A 20060208 CN 2003-80107422

2003

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JP 2006514029 T2 20060427 JP 2004-561602

2003

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US 2006069089 A1 20060330 US 2005-540037

2005

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PRAI GB 2002-30018 A 20021223
 WO 2003-GB5248 W 20031203

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004056824	ICM	C07D471-04
	ICS	A01N043-90
	IPCI	C07D0471-04 [ICM,7]; C07D0471-00 [ICM,7,C*]; A01N0043-90 [ICS,7]
	IPCR	A01N0043-90 [I,A]; A01N0043-90 [I,C*]; C07D0471-00 [I,C*]; C07D0471-04 [I,A]
CA 2507670	ECLA	A01N043/90; C07D471/04+221B+221B+2
	IPCI	C07D0471-04 [ICM,7]; C07D0471-00 [ICM,7,C*]; A01N0043-90 [ICS,7]
	IPCR	A01N0043-90 [I,A]; A01N0043-90 [I,C*]; C07D0471-00 [I,C*]; C07D0471-04 [I,A]
AU 2003292381	ECLA	A01N043/90; C07D471/04+221B+221B+2
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	IPCR	A01N0043-90 [I,A]; A01N0043-90 [I,C*]; C07D0471-00 [I,C*]; C07D0471-04 [I,A]
EP 1585746	IPCI	C07D0471-04 [ICM,7]; C07D0471-00 [ICM,7,C*];

		A01N0043-90 [ICS, 7]
	IPCR	A01N0043-90 [I,A]; A01N0043-90 [I,C*]; C07D0471-00 [I,C*]; C07D0471-04 [I,A]
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CN 1732169	IPCI	C07D0471-04 [I,A]; C07D0471-00 [I,C*]; A01N0043-90 [I,A]
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JP 2006514029	IPCI	C07D0471-04 [I,A]; C07D0471-00 [I,C*]; C07D0213-80 [I,A]; C07D0213-79 [I,A]; C07D0213-00 [I,C*]; A01N0043-90 [I,A]; A01P0003-00 [I,A]
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US 2006069089	IPCI	C07D0471-02 [I,A]; C07D0471-00 [I,C*]; A01N0043-42 [I,A]; A01N0043-34 [I,C*]
	NCL	514/227.800; 514/234.200; 514/253.040; 514/300.000; 544/060.000; 544/125.000; 544/362.000; 546/122.000
	ECLA	A01N043/90; C07D471/04+221B+221B+2
OS	MARPAT	141:89023
GI		

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
*

AB The invention relates to a preparation of naphthyridine derivs. of formula I [wherein: one of W, X, Y and Z is N and the others are CH, C-halo, etc.; when X is CH, Z is N, R is NHNH₂, R₁ is Ph and R₂ is Cl, W and Y are both CCH₃; one of R and R₂ is NH₂, N[alk(en/yn)yl]₂, or aryl, etc., and the other is halo, alkyl, alkoxy, etc.; R₁ is (hetero)aryl, morpholino, piperidino, or pyrrolidino], useful as plant fungicides. For instance, naphthyridine derivs. II (R₃ = Cl; R₄ = i-PrNH) and II (R₃ = i-PrNH, R₄ = Cl) were prepared via phenylacetylation of III (R₅ = NH₂) by 2,4,6-trifluorophenylacetyl chloride, intramol. heterocyclization of the obtained acetylaminonicotinate derivative III [R₅ = 2,4,6-trifluoro-C₆H₄CH₂C(O)NH], chlorination/aromatization of the obtained pyridotriazinedione derivative IV, and subsequent amination of the obtained dichloronaphthyridine derivative II (R₃ = R₄ = Cl) by i-PrNH₂ (example 1). For instance, naphthyridine derivative V gave greater than 60% control of disease (Plasmopara viticola).

ST naphthyridine prepn plant fungicide; aminonicotinate phenylacetylation heterocyclization chlorination

IT Fungicides
(agrochem.; preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)

- IT Phytopathogenic fungi
(combating and controlling; preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)
- IT Heterocyclic compounds
(nitrogen; preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)
- IT Acetylation
Amination
Chlorination
Heterocyclization
(preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)
- IT 14208-83-4P 27507-15-9P, Ethyl 3-Amino-2-picolinate
714963-56-1P 714963-57-2P 714963-58-3P 714963-63-0P
714963-64-1P 714963-65-2P 714963-67-4P 714963-68-5P
714963-69-6P 714963-71-0P 714963-73-2P 714963-74-3P
714963-75-4P
(intermediate; preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)
- IT 70816-58-9DP, Naphthyridine, derivs.
(preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)
- IT 714963-53-8P 714963-54-9P 714963-59-4P 714963-60-7P
714963-61-8P 714963-62-9P 714963-66-3P 714963-70-9P
714963-72-1P 714963-76-5P
(preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)
- IT 110-86-1DP, Pyridine, derivs.
(preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)
- IT 75-31-0, Isopropylamine, reactions 110-91-8, Morpholine,
reactions 1462-86-8, 3-Amino-2-picolinic acid 7579-20-6
13362-26-0, 2-Aminonicotinic acid ethyl ester 13952-84-6,
Sec-Butylamine 16952-66-2, Ethyl 4-aminopyridine-3-carboxylate
179314-61-5, 2-Chloro-6-fluorophenylacetyl chloride 433226-06-3,
2-Amino-5-bromonicotinic acid ethyl ester 714963-55-0,
2-(2,4,6-Trifluorophenyl)acetyl chloride
(reactant; preparation of fungicidal naphthyridine derivs. from nicotinic acid derivs.)

=> d 136 1-39 ibib abs hitstr hitind

L36 ANSWER 1 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:281492 HCAPLUS

DOCUMENT NUMBER: 144:390870

TITLE: Microwave-assisted three-component synthesis
and in vitro antifungal evaluation of
6-cyano-5,8-dihydropyrido[2,3-d]pyrimidin-
4(3H)-ones

AUTHOR(S): Quiroga, Jairo; Cisneros, Carlos; Insuasty,
Braulio; Abonia, Rodrigo; Cruz, Silvia;
Nogueras, Manuel; Manuel de la Torre, Jose;
Sortino, Maximiliano; Zacchino, Susana

CORPORATE SOURCE: Grupo de Investigacion de Compuestos
Heterociclicos, Department of Chemistry,
Universidad del Valle, Cali, A.A.25360,
Colombia

SOURCE: Journal of Heterocyclic Chemistry (2006),
43(2), 299-306

PUBLISHER: HeteroCorporation
 DOCUMENT TYPE: Journal
 LANGUAGE: English

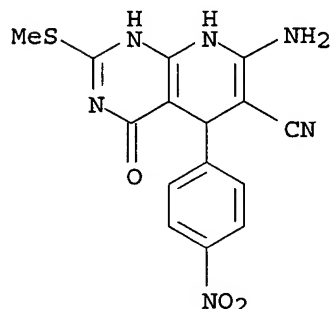
AB The reaction of 6-aminopyrimidin-4-ones with benzaldehydes and β -iminobutyronitrile or benzoylacetonitrile under microwave irradiation in dry media yields 6-cyano-5,8-dihydropyrido[2,3-d]-pyrimidinones. The structure of the synthesized compds. was determined on the basis of NMR measurements, especially by ^1H , ^1H -, ^1H , ^{13}C COSY, DEPT, and NOESY expts. In contrast with other pyrido[2,3-d]pyrimidine derivs., these compds. did not show any antifungal in vitro activity $\leq 250 \mu\text{g/mL}$.

IT 220664-03-9 882877-28-3 882877-29-4
 882877-30-7

(preparation of cyanodihydropyridopyrimidinones without antifungal activity by microwave-assisted three-component coupling)

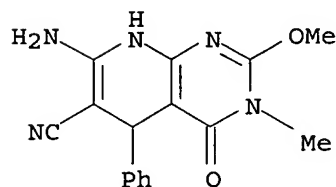
RN 220664-03-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1,4,5,8-tetrahydro-2-(methylthio)-5-(4-nitrophenyl)-4-oxo- (9CI) (CA INDEX NAME)



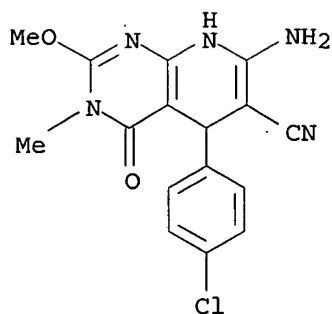
RN 882877-28-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-3,4,5,8-tetrahydro-2-methoxy-3-methyl-4-oxo-5-phenyl- (9CI) (CA INDEX NAME)



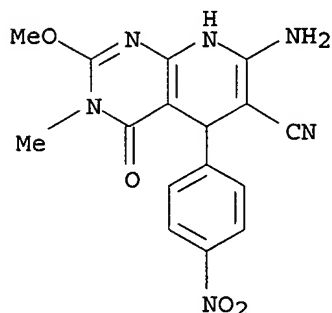
RN 882877-29-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(4-chlorophenyl)-3,4,5,8-tetrahydro-2-methoxy-3-methyl-4-oxo- (9CI) (CA INDEX NAME)



RN 882877-30-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-3,4,5,8-tetrahydro-2-methoxy-3-methyl-5-(4-nitrophenyl)-4-oxo- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 10

IT **Fungicides**

(preparation of cyanodihydropyridopyrimidinones without antifungal activity by microwave-assisted three-component coupling)

IT 220664-03-9 882877-28-3 882877-29-4
882877-30-7

(preparation of cyanodihydropyridopyrimidinones without antifungal activity by microwave-assisted three-component coupling)

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L36 ANSWER 2 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1242789 HCAPLUS

DOCUMENT NUMBER: 143:477969

TITLE: Preparation of benzimidazole quinolinones for
inhibiting FGFR3 and treating multiple myeloma
INVENTOR(S): Cai, Shaopei; Chou, Joyce; Harwood, Eric;
Heise, Carla C.; Machajewski, Timothy D.;
Ryckman, David; Shang, Xiao; Wiesmann, Marion;
Zhu, Shuguang

PATENT ASSIGNEE(S): Chiron Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 239 pp., Cont.-in-part
of U.S. Ser. No. 644,055.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

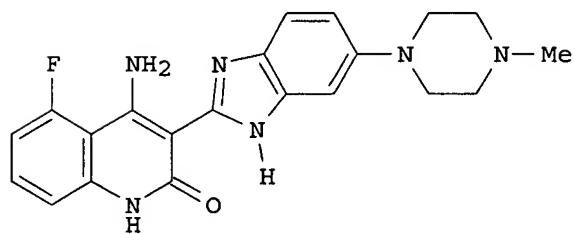
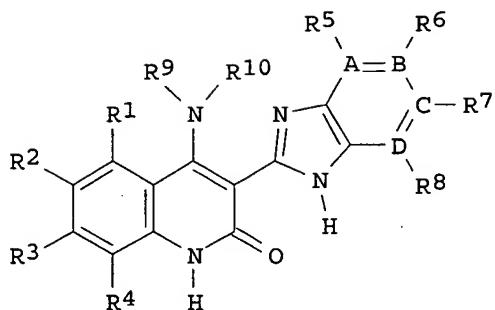
PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
US 2005261307	A1	20051124	US 2004-983174	2004 1105
US 2004092535	A1	20040513	<-- US 2003-644055	2003 0819
CN 1692112	A	20051102	<-- CN 2003-824565	2003 0819
US 2005203101	A1	20050915	<-- US 2004-839793	2004 0505

PRIORITY APPLN. INFO.:

<-- US 2002-405729P	P	2002 0823
<-- US 2002-426107P	P	2002 1113
<-- US 2002-426226P	P	2002 1113
<-- US 2002-426282P	P	2002 1113
<-- US 2002-428210P	P	2002 1121
<-- US 2003-460327P	P	2003 0403
US 2003-460328P	P	2003 0403
US 2003-460493P	P	2003 0403
US 2003-478916P	P	2003 0616
US 2003-484048P	P	2003

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US 2003-644055	A2
	2003 0819
US 2003-517915P	P
	2003 1107
US 2003-526425P	P
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	2003 1202
US 2004-546017P	P
	2004 0219

OTHER SOURCE(S) : MARPAT 143:477969
GI



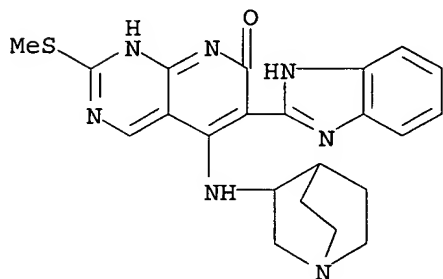
AB The title compds. I [A, B, C, and D = C, N; R1-R3 = H, halo, CN, NO2, etc.; R4 = H, alkyl; R5-R8 = H, halo, CN, NO2, etc.; R9 = H, (un)substituted alkyl, aryl, etc.; R10 = H], useful for inhibiting fibroblast growth factor receptor 3 or treating a biol. condition mediated by fibroblast growth factor receptor 3, were prepared E.g., a multi-step synthesis of 4-amino-5-fluoro-3-[6-(4-methylpiperazin-1-yl)-1H-benzimidazol-2-yl]-1H-quinolin-2-one

(II), starting from 5-chloro-2-nitroaniline and 1-methylpiperazine, was given. The majority of the exemplary compds. I displayed an IC₅₀ of less than 10 μ M with respect to VEGFR1, VEGFR2, VEGFR3, FGFR1, CHK1, Cdc2, GSK-3, NEK-2, Cdk2, Cdk4, MEK1, NEK-2, CHK2, CK1 ϵ , Raf, Fyn, Lck, Rsk2, PAR-1, c-Kit, c-ABL, p60src, FGFR3, FLT-3, PDGFR α , and PDGFR β . In addition, many of the exemplary compds. exhibited IC₅₀ values in the nM range and show potent activity with respect to VEGFR1, VEGFR2, VEGFR3, FGFR1, FGFR3, c-Kit, c-ABL, FLT-3, CHK1, Cdc2, GSK-3, NEK-2, Cdk2, MEK1, CHK2, Fyn, Lck, Rsk2, PAR-1, PDGFR α , and PDGFR β with IC₅₀ values of less than 1 μ M. The mentioned above compound II was tested in various tests and showed significant antiproliferative activity. II inhibited FGFR3 receptor phosphorylation and ERK phosphorylation in multiple myeloma cell lines with activating FGFR3 mutations.

IT 668434-53-5P 668434-54-6P 668434-55-7P
(preparation of benzimidazole quinolinones for inhibiting FGFR3 and treating multiple myeloma)

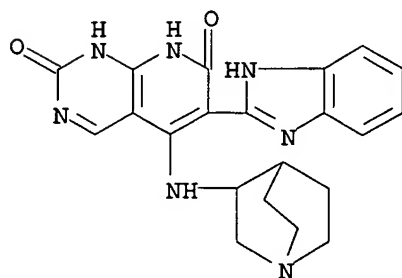
RN 668434-53-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(1H)-one, 5-(1-azabicyclo[2.2.2]oct-3-ylamino)-6-(1H-benzimidazol-2-yl)-2-(methylthio)- (9CI) (CA INDEX NAME)



RN 668434-54-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7(1H,3H)-dione, 5-(1-azabicyclo[2.2.2]oct-3-ylamino)-6-(1H-benzimidazol-2-yl)- (9CI) (CA INDEX NAME)



RN 668434-55-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7(1H,3H)-dione, 5-[(3S)-1-azabicyclo[2.2.2]oct-3-ylamino]-6-(1H-benzimidazol-2-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

668434-53-5P 668434-54-6P 668434-55-7P

668434-56-8P 668434-57-9P 668434-58-0P 668434-59-1P

668434-60-4P 668434-61-5P 668434-62-6P 668481-36-5P

668481-38-7P 668481-40-1P 668481-41-2P 668481-42-3P

668481-44-5P 668481-45-6P 669000-47-9P 692737-80-7P

(preparation of benzimidazole quinolinones for inhibiting FGFR3 and
treating multiple myeloma)

L36 ANSWER 3 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1223876 HCAPLUS

DOCUMENT NUMBER: 143:477966

TITLE: Preparation of benzimidazole quinolinones for
inhibiting a checkpoint kinase 1 and their use
in combination therapy for cancer

INVENTOR(S): Gesner, Thomas G.; Barsanti, Paul A.;
Harrison, Stephen D.; Ni, Zhi-Jie; Brammeier,
Nathan M.; Zhou, Yasheen; Le, Vincent P.

PATENT ASSIGNEE(S): Chiron Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 249 pp., Cont.-in-part
of U.S. Ser. No. 644,055.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2005256157	A1	20051117	US 2005-41191	2005 0121
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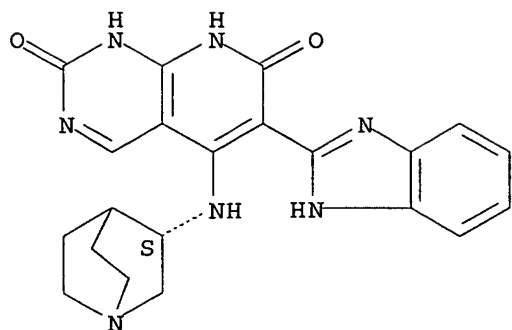
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IC ICM A61K031-496

INCL 514253070

CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))

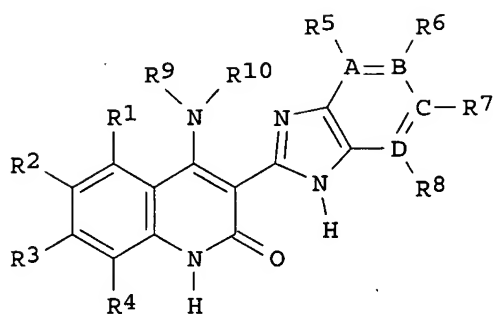
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	2003 0701
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	2003 0819
US 2004-538984P	P
	2004 0123

OTHER SOURCE(S) :
GI

MARPAT 143:477966



I

AB The title compds. [I; A, B, C, D = C, N; R1 = H, halo, CN, NO2, etc.; R2, R3 = H, halo, NO2, CN, etc.; R4 = H, (un)substituted alkyl; R5, R8 = H, (un)substituted alkyl, alkenyl, heterocyclyl; or R5 may be absent if A = N; or R8 may be absent if D = N; R6, R7 = H, halo, NO2, CN, etc.; R9 = H, (un)substituted alkyl, aryl, etc.; R10 = H; or R9 and R10 join together to form one or more rings, each having 5-7 members], useful for inhibiting checkpoint

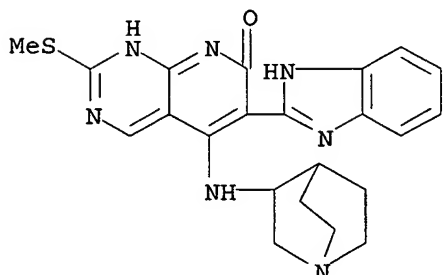
kinase 1, inducing cell cycle progression, and increasing apoptosis in cells, were prepared. E.g., a multi-step synthesis of 4-amino-3-(benzimidazol-2-yl)-6-(4-methylpiperazinyl)hydroquinolin-2-one, was given. The compds. I were tested against various kinases. Two of the prepared compds. I, 4-[(3S)-1-azabicyclo[2.2.2]oct-3-ylamino]-3-(1H-benzimidazol-2-yl)-6-chloroquinolin-2-(1H)-one and 6-chloro-3-[5-(4-methylpiperazin-1-yl)-1H-benzimidazol-2-yl]-4-[(piperidin-2-ylmethyl)amino]quinolin-2-(1H)-one, were found to be potent inhibitors of CHK1 with IC50 of 0.32 nM and 0.63 nM, resp. The majority of the exemplary compds. I displayed an IC50 of less than 10 μ M with respect to VEGFR1, VEGFR2, VEGFR3, FGFR1, CHK1, Cdc2, GSK-3, NEK-2, Cdk2, Cdk4, MEK1, NEK-2, CHK2, CK1 ϵ , Raf, Fyn, Lck, Rsk2, PAR-1, c-Kit, c-ABL, p60src, FGFR3, FLT-3, PDGFR α , and PDGFR β . In addition, many of the exemplary compds. exhibited IC50 values in the nM range and show potent activity with respect to VEGFR1, VEGFR2, VEGFR3, FGFR1, FGFR3, c-Kit, c-ABL, FLT-3, CHK1, Cdc2, GSK-3, NEK-2, Cdk2, MEK1, CHK2, Fyn, Lck, Rsk2, PAR-1, PDGFR α , and PDGFR β with IC50 values of less than 1 μ M. The compds. I may be used to prepare pharmaceutical compns. and may be used in conjunction with DNA damaging agents.

IT 668434-53-5P 668434-54-6P 668434-55-7P

(preparation of benzimidazole quinolinones for inhibiting a checkpoint kinase 1 and their use in combination therapy for cancer)

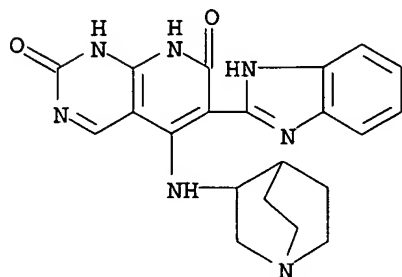
RN 668434-53-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(1H)-one, 5-(1-azabicyclo[2.2.2]oct-3-ylamino)-6-(1H-benzimidazol-2-yl)-2-(methylthio)- (9CI) (CA INDEX NAME)



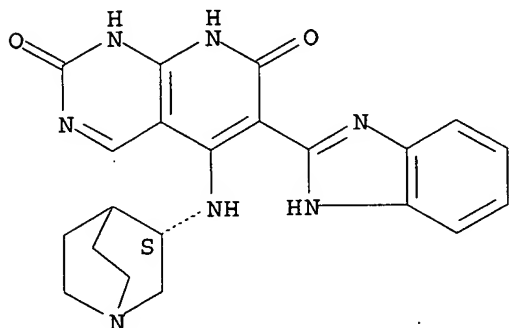
RN 668434-54-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7(1H,3H)-dione, 5-(1-azabicyclo[2.2.2]oct-3-ylamino)-6-(1H-benzimidazol-2-yl)- (9CI) (CA INDEX NAME)



RN 668434-55-7 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7(1H,3H)-dione, 5-[(3S)-1-azabicyclo[2.2.2]oct-3-ylamino]-6-(1H-benzimidazol-2-yl)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



IC ICM A61K031-4709
 INCL 514312000
 CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

IT	668432-87-9P	668432-88-0P	668432-89-1P	668432-90-4P
	668432-91-5P	668432-92-6P	668432-93-7P	668432-94-8P
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	668432-99-3P	668433-00-9P	668433-01-0P	668433-02-1P
	668433-03-2P	668433-04-3P	668433-05-4P	668433-06-5P
	668433-07-6P	668433-08-7P	668433-09-8P	668433-10-1P
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 869667-04-9P 869667-05-0P 869667-07-2P 869667-08-3P
 869667-09-4P

(preparation of benzimidazole quinolinones for inhibiting a
 checkpoint kinase 1 and their use in combination therapy for
 cancer)

L36 ANSWER 4 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:99502 HCAPLUS

DOCUMENT NUMBER: 142:198091

TITLE: Preparation of pyridopyridines and
 pyridopyrimidines as **agrochemical
 fungicides.**

INVENTOR(S): Wagner, Oliver; Grote, Thomas; Blettner,
 Carsten; Gewehr, Markus; Grammenos, Wassilios;
 Gypser, Andreas; Mueller, Bernd; Rheinheimer,
 Joachim; Schaefer, Peter; Schieweck, Frank;
 Schwoegler, Anja; Tormo, I. Blasco Jordi;
 Akers, Alan; Speakman, John-Bryan; Rack,
 Michael; Stierl, Reinhard; Scherer, Maria;
 Strathmann, Siegfried; Schoefl, Ulrich

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

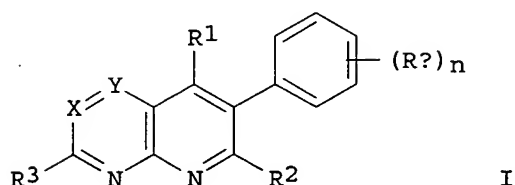
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2005010000	A2	20050203	WO 2004-EP7924	2004 0715
WO 2005010000	A3	20050519		
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RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2004259269	A1	20050203	AU 2004-259269	

				2004 0715
CA 2532917	AA	20050203	CA 2004-2532917	
				2004 0715
EP 1648890	A2	20060426	EP 2004-763272	
				2004 0715
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1826341	A	20060830	CN 2004-80020751	
				2004 0715
US 2006160811	A1	20060720	US 2006-563222	
				2006 0104
PRIORITY APPLN. INFO.:			DE 2003-10332790	A 2003 0718
			WO 2004-EP7924	W 2004 0715

OTHER SOURCE(S): MARPAT 142:198091
GI



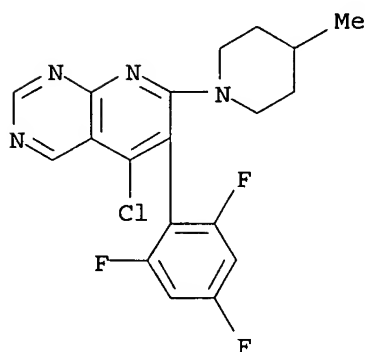
AB Title compds. [I; X, Y = N, CR4; n = 1-5; Ra = halo, cyano, alkyl, alkoxy, halogenalkyl, halogenalkoxy, alkenyl, alkenyloxy, COR5; R1, R2 = halo, cyano, alkyl, haloalkyl, alkenyl, alkynyl, halo, OR6, SR6, NR7R8, (halo- and/or alkyl-substituted) cycloalkyl, cycloalkenyl; R3 = H, alkyl, halogenalkyl, cycloalkyl, optionally mono- or polysubstituted by alkyl and/or halo; R4 = H, halo, alkyl, haloalkyl, (alkyl and/or halo-substituted)cycloalkyl; R5 = H, OH, alkyl, alkoxy, haloalkyl, haloalkoxy, etc.; R6 = H, alkyl, haloalkyl, (substituted) phenylalkyl; R7, R8 = H, alkyl, alkenyl, alkadienyl, alkynyl, cycloalkyl, cycloalkenyl, Ph, phenylalkyl, naphthyl, heterocyclyl, etc.; R7R8N = atoms to form a 5-7 membered ring], were prepared. Thus, Et 2,4,6-trifluoroacetate and Et 4-aminopyrimidine-5-carboxylate were heated together with NaOEt at 130° with distillation of EtOH to give 30% 6-(2,4,6-trifluorophenyl)pyrido[2,3-d]pyrimidin-5,7-diol. This was heated with POCl3 and PCl5 at 130° for 8 h to give 95% 5,7-dichloro-6-(2,4,6-trifluorophenyl)pyrido[2,3-d]pyrimidine. The latter at 250 ppm reduced incidence of Leptosphaeria nodorum infection on wheat to 3%, vs 80% for untreated controls.

IT 835878-58-5P 835878-59-6P 835878-61-0P
835878-64-3P 835878-76-7P 835878-80-3P

(preparation of pyridopyridines and pyridopyrimidines as
agrochem. fungicides)

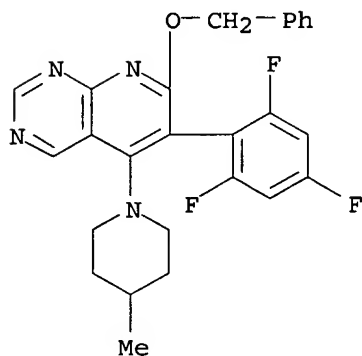
RN 835878-58-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine, 5-chloro-7-(4-methyl-1-piperidinyl)-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



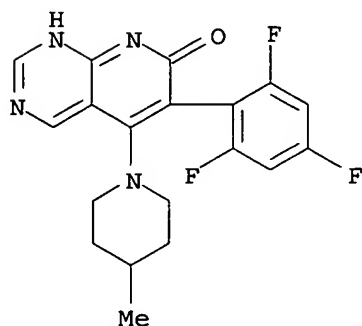
RN 835878-59-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine, 5-(4-methyl-1-piperidinyl)-7-(phenylmethoxy)-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)

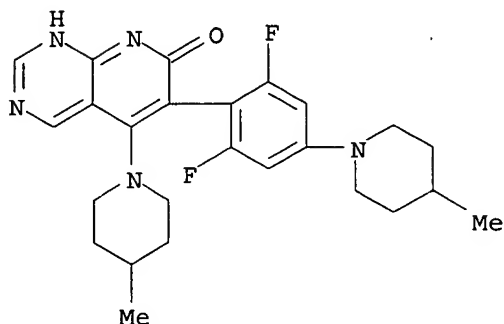


RN 835878-61-0 HCAPLUS

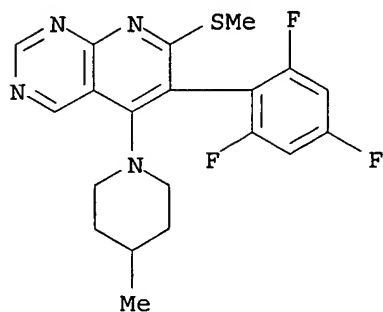
CN Pyrido[2,3-d]pyrimidin-7(1H)-one, 5-(4-methyl-1-piperidinyl)-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



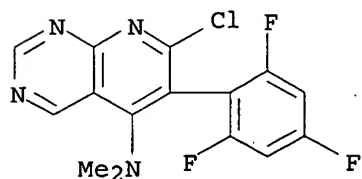
RN 835878-64-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7(1H)-one, 6-[2,6-difluoro-4-(4-methyl-1-piperidinyl)phenyl]-5-(4-methyl-1-piperidinyl)- (9CI) (CA INDEX NAME)



RN 835878-76-7 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine, 5-(4-methyl-1-piperidinyl)-7-(methylthio)-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



RN 835878-80-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-5-amine, 7-chloro-N,N-dimethyl-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



IC ICM C07D471-04
 ICS A01N043-90
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5
 ST pyridopyridine pyridopyrimidine prepn agrochem
 fungicide
 IT Fungicides

(agrochem.; preparation of pyridopyridines and
pyridopyrimidines as agrochem. fungicides)

IT 714963-58-3P 714975-56-1P 716324-85-5P 835878-46-1P
835878-47-2P 835878-48-3P 835878-49-4P 835878-50-7P
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835878-70-1P 835878-71-2P 835878-72-3P 835878-73-4P
835878-74-5P 835878-75-6P 835878-76-7P 835878-77-8P
835878-78-9P 835878-79-0P 835878-80-3P

(preparation of pyridopyridines and pyridopyrimidines as
agrochem. fungicides)

IT 100-51-6, Benzyl alcohol, reactions 626-58-4, 4-Methylpiperidine
65195-35-9 70959-85-2, Ethyl 2-amino-6-methylnicotinate
835878-81-4, Ethyl 2,4,6-trifluorophenylacetate 835878-82-5,
1-(2,4,6-Trifluorophenyl)propan-2-one

(preparation of pyridopyridines and pyridopyrimidines as
agrochem. fungicides)

L36 ANSWER 5 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:546508 HCAPLUS

DOCUMENT NUMBER: 141:89106

TITLE: A preparation of pyridopyrimidine derivatives,
useful as plant fungicides

INVENTOR(S): Crowley, Patrick Jelf; Dobler, Markus;
Mueller, Urs; Williams, John

PATENT ASSIGNEE(S): Syngenta Limited, UK; Syngenta Participations
Ag

SOURCE: PCT Int. Appl., 95 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056826	A1	20040708	WO 2003-GB5273	2003 1204

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ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
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TZ, UA, UG, US, VZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW,
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NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
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CA 2508658 AA 20040708 CA 2003-2508658

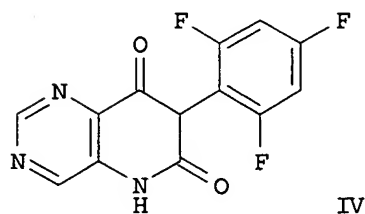
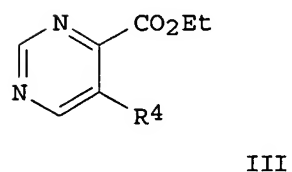
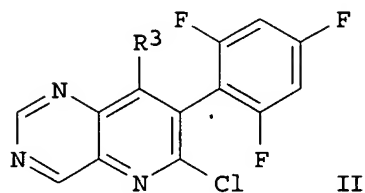
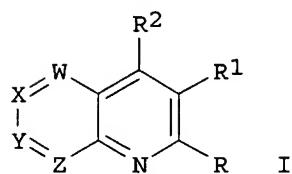
2003
1204

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AU 2003288418	A1	20040714	AU 2003-288418	2003 1204
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EP 1575949	A1	20050921	EP 2003-780337	2003 1204
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			<--	
CN 1732170	A	20060208	CN 2003-80107423	2003 1204
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JP 2006516131	T2	20060622	JP 2004-561605	2003 1204
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PRIORITY APPLN. INFO.:			GB 2002-30019	A 2002 1223
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			WO 2003-GB5273	W 2003 1204

OTHER SOURCE(S):
GI

MARPAT 141:89106



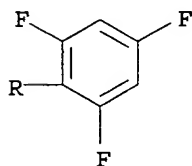
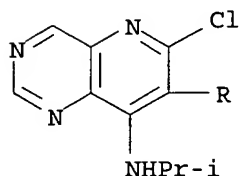
AB The invention relates to a preparation of pyridopyrimidine derivs. of formula I [wherein: W and Y are both N and X and Z are both CH, C-halo, etc.; or X and Z are both N and W and Y are both CH, C-halo, etc.; R and R2 are independently H, halo, alkyl, or alkoxy, etc.; R1 is halo, alkyl, or alk(en/yn)yl, etc.], useful as plant **fungicides**. For instance, pyridopyrimidine derivs. II (R3 = i-PrNH; > 60% control of disease, pyricularia oryzae) was prepared via amidation of 2,4,6-trifluorophenylacetyl chloride by the obtained intermediate aminopyrimidine derivative III (R4 = NH2), heterocyclization of the obtained acetylaminopyrimidine III [R4 = 2-(2,4,6-trifluorophenyl)acetyl amino], chlorination/aromatization of the obtained dioxypyridopyrimidine derivative IV, and subsequent amination of the obtained dichloropyridopyrimidine derivative II (R3 = Cl) by i-PrNH2 (example 1).

IT 714975-46-9P 714975-50-5P 714975-51-6P
714975-57-2P

(preparation of **fungicidal** pyridopyrimidine derivs. from aminopyrimidinecarboxylates)

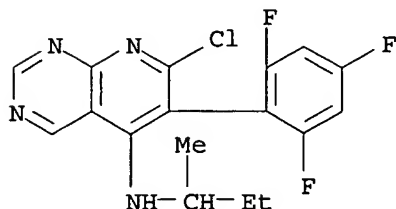
RN 714975-46-9 HCAPLUS

CN Pyrido[3,2-d]pyrimidin-8-amine, 6-chloro-N-(1-methylethyl)-7-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



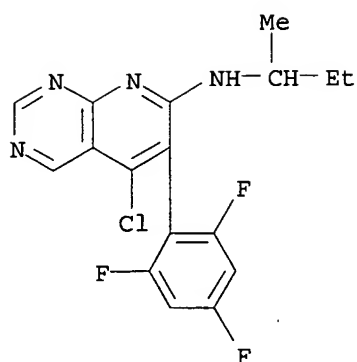
RN 714975-50-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-5-amine, 7-chloro-N-(1-methylpropyl)-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



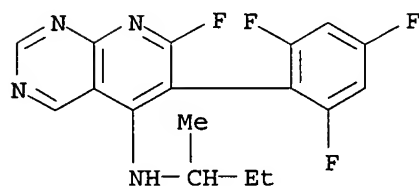
RN 714975-51-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 5-chloro-N-(1-methylpropyl)-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



RN 714975-57-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-5-amine, 7-fluoro-N-(1-methylpropyl)-6-(2,4,6-trifluorophenyl)- (9CI) (CA INDEX NAME)



IC ICM C07D471-04

ICS A01N043-90; C07D239-42; C07D239-00; C07D221-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

ST pyridopyrimidine prepn plant **fungicide**; aminopyrimidine carboxylate phenylacetyl amidation heterocyclization amination

IT **Fungicides**

(agrochem.; preparation of **fungicidal**

pyridopyrimidine derivs. from aminopyrimidinecarboxylates)

IT Amination

Chlorination

Heterocyclization

(preparation of **fungicidal** pyridopyrimidine derivs. from aminopyrimidinecarboxylates)

IT 52047-16-2P 54368-61-5P 59950-50-4P 59950-51-5P

714975-47-0P 714975-48-1P 714975-49-2P 714975-53-8P

714975-54-9P 714975-55-0P 714975-56-1P 714975-58-3P

(intermediate; preparation of **fungicidal** pyridopyrimidine derivs. from aminopyrimidinecarboxylates)

IT 254-61-5DP, Pyrido[2,3-d]pyrimidine, derivs. 254-80-8DP, Pyrido[3,2-d]pyrimidine, derivs.

(preparation of **fungicidal** pyridopyrimidine derivs. from aminopyrimidinecarboxylates)

IT 714975-46-9P 714975-50-5P 714975-51-6P

714975-57-2P

(preparation of **fungicidal** pyridopyrimidine derivs. from aminopyrimidinecarboxylates)

IT 289-95-2DP, Pyrimidine, derivs.

(preparation of **fungicidal** pyridopyrimidine derivs. from

aminopyrimidinecarboxylates)

IT 75-31-0, Isopropylamine, reactions 13952-84-6, Sec-Butylamine
65717-13-7 714963-55-0 714975-52-7

(reactant; preparation of **fungicidal** pyridopyrimidine
derivs. from aminopyrimidinecarboxylates)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L36 ANSWER 6 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:182836 HCAPLUS

DOCUMENT NUMBER: 140:235711

TITLE: Preparation of benzimidazole quinolinones for
inhibiting a serine/threonine kinase

INVENTOR(S): Barsanti, Paul A.; Bussiere, Dirksen;
Harrison, Stephen D.; Heise, Carla C.; Jansen,
Johanna M.; Jazan, Elisa; Machajewski, Timothy
D.; McBride, Christopher; McCrea, William R.;
Ng, Simon; Ni, Zhi-Jie; Pecchi, Sabina;
Pfister, Keith; Ramurthy, Savithri; Renhowe,
Paul A.; Shafer, Cynthia M.; Silver, Joel B.;
Wagman, Allan; Weismann, Marion

PATENT ASSIGNEE(S): Chiron Corporation, USA

SOURCE: PCT Int. Appl., 570 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004018419	A2	20040304	WO 2003-US25990	2003 0819
<--				
WO 2004018419	A3	20040603		
WO 2004018419	B1	20040729		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2496164	AA	20040304	CA 2003-2496164	2003 0819
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AU 2003288899	A1	20040311	AU 2003-288899	2003 0819
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EP 1539754	A2	20050615	EP 2003-781286	

2003
0819

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ,
EE, HU, SK

BR 2003013743 A 20050705 BR 2003-13743

2003
0819

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CN 1692112 A 20051102 CN 2003-824565

2003
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JP 2006503919 T2 20060202 JP 2005-501762

2003
0819

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PRIORITY APPLN. INFO.:

US 2002-405729P P

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US 2002-426107P P

2002
1113

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US 2002-426226P P

2002
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US 2002-426282P P

2002
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US 2002-428210P P

2002
1121

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US 2003-460327P P

2003
0403

US 2003-460328P P

2003
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US 2003-460493P P

2003
0403

US 2003-478916P P

2003
0616

US 2003-484048P P

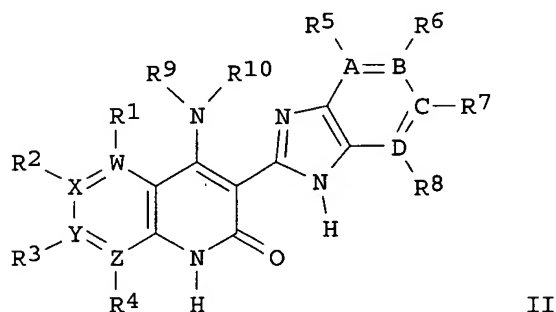
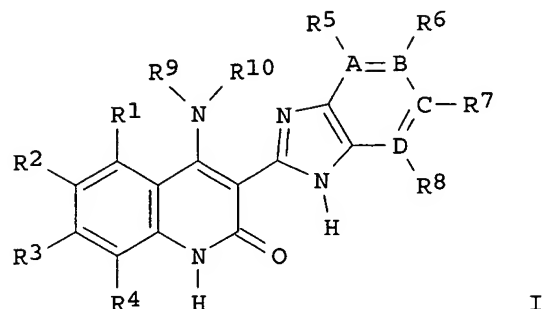
2003
0701

WO 2003-US25990 W

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0819

OTHER SOURCE(S) : MARPAT 140:235711
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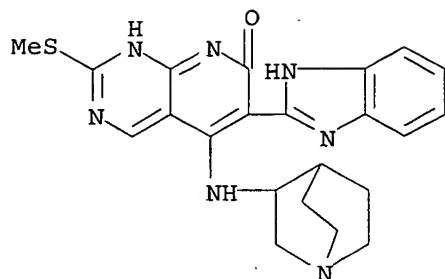
AB The title compds. [I and II; A, B, C, and D = C, N; W, X, Y and Z = C, N and at least one of W, X, Y, and Z = N; R1-R8 = H, halo, CN, NO2, etc.; R9 = H, (un)substituted alkyl, aryl, etc.; R10 = H; or NR9R10 = 5-7 membered ring], useful for inhibiting various enzymes and treating various conditions, were prepared. E.g., a multi-step synthesis of 4-amino-3-(benzimidazol-2-yl)-6-(4-methylpiperazinyl)hydroquinolin-2-one, was given. The majority of the exemplary compds. I displayed an IC50 of less than 10 μ M with respect to VEGFR1, VEGFR2, VEGFR3, FGFR1, CHK1, Cdc2, GSK-3, NEK-2, Cdk2, Cdk4, MEK1, NEK-2, CHK2, CK1 ϵ , Raf, Fyn, Lck, Rsk2, PAR-1, c-Kit, c-ABL, p60src, FGFR3, FLT-3, PDGFR α , and PDGFR β . In addition, many of the exemplary compds. exhibited IC50 values in the nM range and show potent activity with respect to VEGFR1, VEGFR2, VEGFR3, FGFR1, FGFR3, c-Kit, c-ABL, FLT-3, CHK1, Cdc2, GSK-3, NEK-2, Cdk2, MEK1, CHK2, Fyn, Lck, Rsk2, PAR-1, PDGFR α , and PDGFR β with IC50 values of less than 1 μ M.

IT 668434-53-5P 668434-54-6P 668434-55-7P

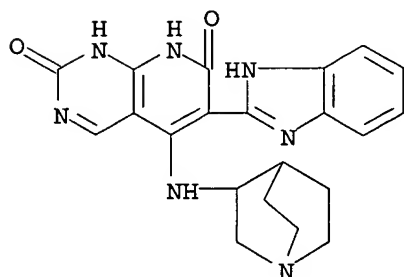
(preparation of benzimidazole quinolinones for inhibiting a serine/threonine kinase)

RN 668434-53-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(1H)-one, 5-(1-azabicyclo[2.2.2]oct-3-ylamino)-6-(1H-benzimidazol-2-yl)-2-(methylthio)- (9CI) (CA INDEX NAME)

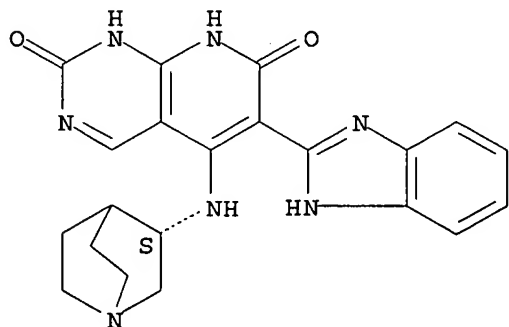


RN 668434-54-6 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7(1H,3H)-dione, 5-(1-azabicyclo[2.2.2]oct-3-ylamino)-6-(1H-benzimidazol-2-yl)- (9CI)
 (CA INDEX NAME)



RN 668434-55-7 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7(1H,3H)-dione, 5-[(3S)-1-azabicyclo[2.2.2]oct-3-ylamino]-6-(1H-benzimidazol-2-yl)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



IC ICM C07D
 CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1
 IT 668432-87-9P 668432-88-0P 668432-89-1P 668432-90-4P
 668432-91-5P 668432-92-6P 668432-93-7P 668432-94-8P
 668432-95-9P 668432-96-0P 668432-97-1P 668432-98-2P
 668432-99-3P 668433-00-9P 668433-01-0P 668433-02-1P
 668433-03-2P 668433-04-3P 668433-05-4P 668433-06-5P

668433-07-6P	668433-08-7P	668433-09-8P	668433-10-1P
668433-11-2P	668433-12-3P	668433-13-4P	668433-14-5P
668433-15-6P	668433-16-7P	668433-17-8P	668433-18-9P
668433-19-0P	668433-20-3P	668433-21-4P	668433-22-5P
668433-23-6P	668433-24-7P	668433-25-8P	668433-26-9P
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668433-36-1P	668433-37-2P	668433-38-3P	668433-39-4P
668433-40-7P	668433-41-8P	668433-42-9P	668433-43-0P
668433-44-1P	668433-45-2P	668433-46-3P	668433-47-4P
668433-48-5P	668433-49-6P	668433-50-9P	668433-51-0P
668433-52-1P	668433-53-2P	668433-54-3P	668433-55-4P
668433-56-5P	668433-58-7P	668433-59-8P	668433-61-2P
668433-62-3P	668433-63-4P	668433-64-5P	668433-65-6P
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668433-78-1P	668433-79-2P	668433-80-5P	668433-81-6P
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668434-45-5P	668434-46-6P	668434-47-7P	668434-48-8P
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668434-56-8P	668434-57-9P	668434-58-0P	668434-59-1P
668434-60-4P	668434-61-5P	668434-62-6P	668481-36-5P
668481-38-7P	668481-40-1P	668481-41-2P	668481-42-3P
668481-44-5P	668481-45-6P	669000-47-9P	

(preparation of benzimidazole quinolinones for inhibiting a serine/threonine kinase)

L36 ANSWER 7 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:911230 HCAPLUS

DOCUMENT NUMBER: 140:391246

TITLE: Novel uracil and pyrido[2,3-d]pyrimidine-2,4(1H, 3H)-dione derivatives: synthesis and antimicrobial activity

AUTHOR(S): Youssif, Shaker; El-Sabbagh, Osama. I.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Zagazig University, Zagazig, Egypt

SOURCE: Mansoura Journal of Pharmaceutical Sciences (2002), 18(1), 41-47

CODEN: MJPSEO; ISSN: 1110-1318

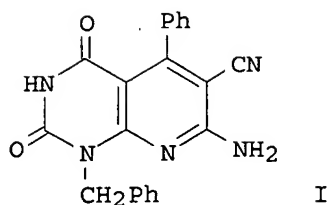
PUBLISHER: Mansoura University, Faculty of Pharmacy

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:391246

GI

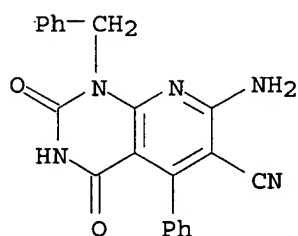


AB The treatment of 1-alkyl-6-chlorouracils with nucleophilic reagents such as sulfonamides was described. Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-diones, e.g., I, and their 4a,5-dihydro derivs. were obtained via Michael addition reaction of 6-amino-1-benzyl-uracil with arylidenemalononitriles and arylidenecyanoacetates. Some of the new compds. showed antimicrobial and antifungal activity.

IT 686720-41-2P 686720-42-3P 686720-44-5P
(prepn and antimicrobial/antifungal activity of pyrido[2,3-d]pyrimidine diones and their dihydro derivs via Michael addition of aminobenzyluracil with arylidenemalononitriles and arylidenecyanoacetates)

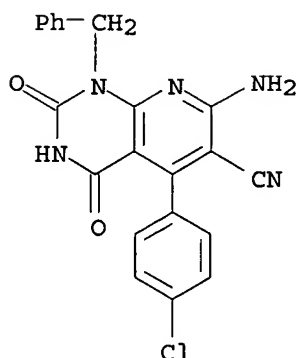
RN 686720-41-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1,2,3,4-tetrahydro-2,4-dioxo-5-phenyl-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

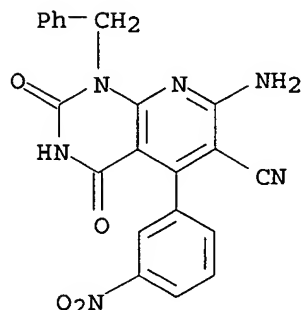


RN 686720-42-3 HCAPLUS

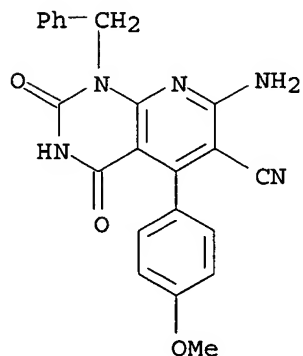
CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(4-chlorophenyl)-1,2,3,4-tetrahydro-2,4-dioxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



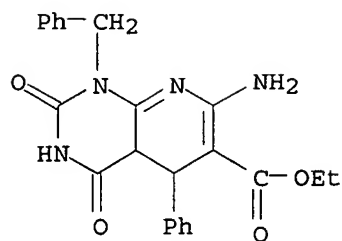
RN 686720-44-5 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1,2,3,4-tetrahydro-5-(3-nitrophenyl)-2,4-dioxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



IT 686720-43-4P 686720-45-6P 686720-46-7P
 686720-47-8P 686720-48-9P
 (prepn and antimicrobial/antifungal activity of
 pyrido[2,3-d]pyrimidine diones and their dihydro derivs via
 Michael addition of aminobenzyluracil with arylidenemalononitriles
 and arylidenecyanoacetates)
 RN 686720-43-4 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1,2,3,4-tetrahydro-5-(4-methoxyphenyl)-2,4-dioxo-1-(phenylmethyl)- (9CI) (CA INDEX NAME)

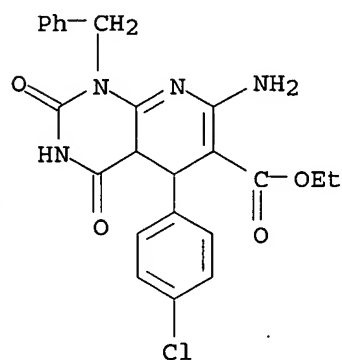


RN 686720-45-6 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1,2,3,4,4a,5-hexahydro-2,4-dioxo-5-phenyl-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



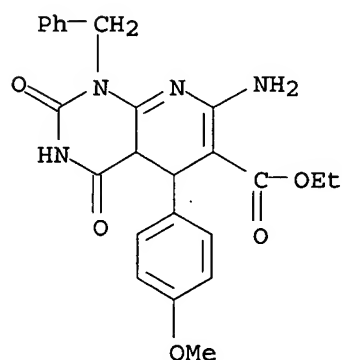
RN 686720-46-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-5-(4-chlorophenyl)-1,2,3,4,4a,5-hexahydro-2,4-dioxo-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



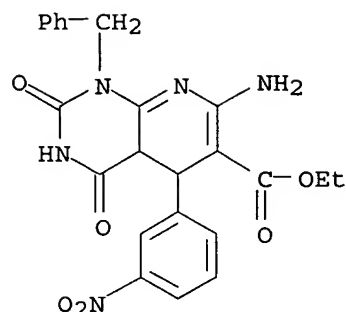
RN 686720-47-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1,2,3,4,4a,5-hexahydro-5-(4-methoxyphenyl)-2,4-dioxo-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 686720-48-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1,2,3,4,4a,5-hexahydro-5-(3-nitrophenyl)-2,4-dioxo-1-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 10
 IT Antimicrobial agents
 Bacillus subtilis
 Candida albicans
 Condensation reaction
 Escherichia coli
 Fungicides
 Michael reaction
 Pseudomonas aeruginosa
 Staphylococcus aureus
 (prepn and antimicrobial/antifungal activity of pyrido[2,3-d]pyrimidine diones and their dihydro derivs via Michael addition of aminobenzyluracil with arylidenemalononitriles and arylidenecyanoacetates)
 IT 686720-41-2P 686720-42-3P 686720-44-5P
 (prepn and antimicrobial/antifungal activity of pyrido[2,3-d]pyrimidine diones and their dihydro derivs via Michael addition of aminobenzyluracil with arylidenemalononitriles and arylidenecyanoacetates)
 IT 686720-43-4P 686720-45-6P 686720-46-7P 686720-47-8P 686720-48-9P
 (prepn and antimicrobial/antifungal activity of pyrido[2,3-d]pyrimidine diones and their dihydro derivs via Michael addition of aminobenzyluracil with arylidenemalononitriles and arylidenecyanoacetates)
 REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 8 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:796707 HCAPLUS
 DOCUMENT NUMBER: 139:307789
 TITLE: Preparation of imidazopyridopyrimidines as inhibitors of p-38 kinase
 INVENTOR(S): Goldstein, David Michael; Hawley, Ronald Charles; Lui, Alfred Sui-ting; Sjogren, Eric Brian
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.
 SOURCE: PCT Int. Appl., 61 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082871	A1	20031009	WO 2003-EP3178	2003 0327
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
CA 2479644	AA	20031009	CA 2003-2479644	2003 0327
AU 2003215675	A1	20031013	AU 2003-215675	2003 0327
BR 2003008937	A	20050104	BR 2003-8937	2003 0327
EP 1492790	A1	20050105	EP 2003-745276	2003 0327
CN 1646529	A	20050727	CN 2003-807536	2003 0327
JP 2006503802	T2	20060202	JP 2003-580336	2003 0327
US 2003232847	A1	20031218	US 2003-406364	2003 0403
US 6949560	B2	20050927		
US 2005197352	A1	20050908	US 2005-122137	2005 0504
US 7081462	B2	20060725		
PRIORITY APPLN. INFO.:			US 2002-369929P	P 2002 0403

WO 2003-EP3178

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US 2003-406364

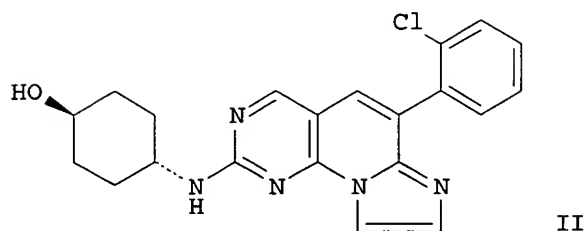
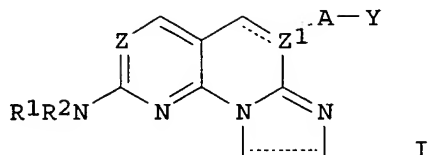
A3

2003
0403

OTHER SOURCE(S) :

MARPAT 139:307789

GI



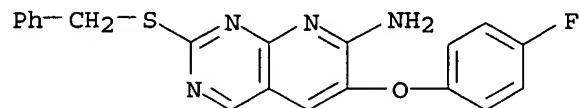
AB Title compds. I [Z = N, CH; Z1 = N, CH, C; R1 = H, alkyl; R2 = (un)substituted alkyl, aralkyl, cycloalkyl, heterocyclyl, aryl; A = bond, O, S, s(O), SO2, (un)substituted CH2, NH, CO; Y = alkyl, heterocyclic, (un)substituted cycloalkyl, aryl, heteroaryl] were prepared for use as inhibitors of p-38 kinase. Thus, the title compound II was prepared by treating 4-amino-2-benzylthiopyrimidine-5-carboxaldehyde with 2-ClC6H4CH2CN, cyclizing with ClCH2CHClOEt, oxidizing to the sulfoxide, and reaction with trans-4-aminocyclohexanol. II had IC50 for inhibition of p-38 kinase of 0.01 μ M.

IT 449809-32-9P

(preparation of imidazopyridopyrimidines as inhibitors of p-38 kinase)

RN 449809-32-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(4-fluorophenoxy)-2-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



IC ICM C07D471-14

ICS C07D487-14; A61K031-519; A61P025-00; A61P029-00; A61P011-00; C07D239-00; C07D235-00; C07D221-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

IT 6309-59-7P, Tetrahydrothiopyran-4-one oxime 21926-00-1P,
 4-Aminotetrahydrothiopyran 182223-53-6P 182223-54-7P
 210240-20-3P 402927-96-2P 402927-97-3P 402927-98-4P
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 610786-12-4P 610786-13-5P 610786-15-7P 610786-16-8P
 610786-17-9P . 610786-20-4P 610786-22-6P 610786-23-7P
 (preparation of imidazopyridopyrimidines as inhibitors of p-38
 kinase)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L36 ANSWER 9 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:236103 HCAPLUS

DOCUMENT NUMBER: 139:197457

TITLE: Piperazine N-substituted naphthyridines,
 pyridothienopyrimidines and
 pyridothienotriazines: new antiprotozoals
 active against *Philasterides dicentrarchi*
 AUTHOR(S): Quintela, Jose M.; Peinador, Carlos; Gonzalez,
 Liliana; Iglesias, Raul; Parama, Anabel;
 Alvarez, Francisca; Sanmartin, Manuel L.;
 Riguera, Ricardo

CORPORATE SOURCE: Facultad de Ciencias, Departamento de Quimica
 Fundamental e Industrial, Universidad de La
 Coruna, La Coruna, 15071, Spain

SOURCE: European Journal of Medicinal Chemistry
 (2003), 38(3), 265-275

CODEN: EJMCA5; ISSN: 0223-5234

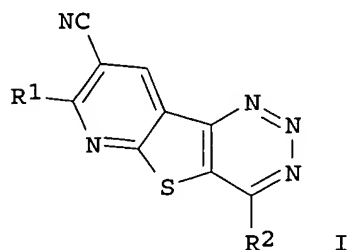
PUBLISHER: Editions Scientifiques et Medicales Elsevier

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OTHER SOURCE(S): CASREACT 139:197457

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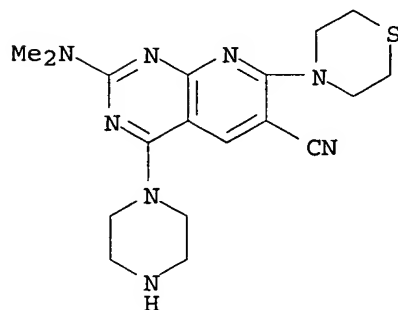
AB New antiprotozoals active against *Philasterides dicentrarchi*, the
 causative agent of scuticociliatosis in farmed turbot and Black
 Sea bass-bream, have been synthesized and tested. The most active
 compds. posses a piperazine ring, generally N-bonded to the
 heterocycle, and are 1,8-naphthyridine, pyridothienopyrimidine,
 and pyridothienotriazine derivs. The pyridothienotriazine I (R1 =
 4-methylpiperidino, R2 = 1-piperazinyl) presents the same activity
 (LD = 0.8/1.5 mg L-1) as the well-known antiparasitics niclosamide
 and oxclozanide.

IT 583051-35-8P
 (preparation of piperazinyl-subtituted naphthyridines,

pyrido[2,3-d]pyrimidines, and pyrido[2,3-d]pyrimidines as
antiprotzoals active against *Philasterides dicentrarchi*)

RN 583051-35-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 2-(dimethylamino)-4-(1-piperazinyl)-7-(4-thiomorpholinyl)- (9CI) (CA INDEX NAME)



CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5, 10

IT 168848-47-3P 583050-97-9P 583050-98-0P 583050-99-1P
583051-00-7P 583051-01-8P 583051-02-9P 583051-03-0P
583051-04-1P 583051-05-2P 583051-06-3P 583051-07-4P
583051-08-5P 583051-09-6P 583051-13-2P 583051-14-3P
583051-16-5P 583051-17-6P 583051-19-8P 583051-20-1P
583051-21-2P 583051-23-4P 583051-24-5P 583051-25-6P
583051-27-8P 583051-28-9P 583051-29-0P 583051-30-3P
583051-32-5P **583051-35-8P** 583051-43-8P 583051-46-1P
583051-48-3P 583051-50-7P 583051-51-8P 583051-52-9P
583051-54-1P 583051-55-2P 583051-56-3P 583051-57-4P
583051-60-9P

(preparation of piperazinyl-substituted naphthyridines,
pyrido[2,3-d]pyrimidines, and pyrido[2,3-d]pyrimidines as
antiprotzoals active against *Philasterides dicentrarchi*)

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L36 ANSWER 10 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:977807 HCAPLUS

DOCUMENT NUMBER: 138:55976

TITLE: Preparation of quinazolinones as
antibacterial agents for quinolone-resistant
bacteria

INVENTOR(S): Ellsworth, Edmund Lee; Showalter, Howard
Daniel Hollis; Powell, Sharon Anne; Sanchez,
Joseph Peter; Kerschen, James Alan; Stier,
Michael Andrew; Tran, Tuan Phong

PATENT ASSIGNEE(S): Warner-Lambert Company, USA

SOURCE: PCT Int. Appl., 341 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002102793 A2 20021227 WO 2002-IB1768
2002
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WO 2002102793 A3 20030410
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE,
SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK,
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EP 1401830 A2 20040331 EP 2002-730582
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MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
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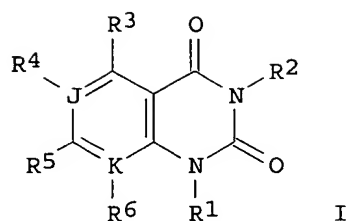
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PRIORITY APPLN. INFO.: US 2001-299249P P
2001
0619

US 2002-369332P P
2002
0403

WO 2002-IB1768 W
2002
0513

OTHER SOURCE(S): MARPAT 138:55976
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I

AB The present invention provides quinazolin-2(1H)-ones (shown as I; variables described below; e.g. 7-[(R)-3-((S)-1-aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazolin-2(1H)-one hydrochloride) and pharmaceutically acceptable salt thereof, that are useful as antibacterial agents. Also disclosed are pharmaceutical compns. comprising ≥ 1 I, processes for preparing I, and intermediates useful for I. For I: R1 is H, C1-C7 (un)substituted alkyl, C2-C7 (un)substituted alkenyl, C2-C7 (un)substituted alkynyl, C3-C7 (un)substituted cycloalkyl, (un)substituted aryl, (un)substituted heterocyclic, or (un)substituted heteroaryl. R2 is H, C(O)Rc, CO2Rc, C(O)NRc (Rc = C1-C7 (un)substituted alkyl, C2-C7 (un)substituted alkenyl, C3-C7 (un)substituted cycloalkyl, (un)substituted aryl, (un)substituted heteroaryl, (un)substituted heterocycloalkyl). R3, R4, and R6 independently = H, OH, (O)nC1-C7 (un)substituted alkyl, (O)nC2-C7 (un)substituted alkenyl, (O)nC2-C7 (un)substituted alkynyl (n = 0, 1), halo, NO2, CN, NRaRb (Ra and Rb independently = H, C1-C7 (un)substituted alkyl, C2-C7 (un)substituted alkenyl, C2-C7 (un)substituted alkynyl, C3-C7 (un)substituted cycloalkyl, C5-C8 (un)substituted cycloalkenyl, (un)substituted aryl, CO2Rc, C(O)SRc, C(O)Rc; C(O)NRdRe (Rd and Re independently = H, C1-C7 (un)substituted alkyl, C2-C7 (un)substituted alkenyl, C3-C7 (un)substituted cycloalkyl, (un)substituted aryl, (un)substituted heteroaryl, (un)substituted heterocycloalkyl), (un)substituted aryl, (un)substituted heteroaryl, (un)substituted heterocycloalkyl, or Ra and Rb taken together with the N to which they are attached form a 4-8 membered ring having 0-3 heteroatoms = N, O, and S, wherein said ring is optionally substituted by ≥ 1 substituents). R1 and R6 taken together with the atoms to which they are attached form a 5-8 membered ring having 0-3 heteroatoms = N, O, and S, wherein said ring is optionally substituted by ≥ 1 substituents. R5 is H, C1-C7 (un)substituted alkyl, C2-C7 (un)substituted alkenyl, C2-C7 (un)substituted alkynyl, ORc, C(O)Rc, OC(O)Rc, OCO2Rc, CO2Rc, C(O)SRc, SRc, S(O)Rc, SO2Rc, SO3Rc, SO2F, SO2CF3, C(O)NRdRe, halo, NO2, CN, NRaRb, (un)fused aryl, (un)fused heterocyclic, (un)fused heteroaryl, bicyclic heterocyclic or spiro heterocyclic, wherein fused aryl, fused heterocyclic, fused heteroaryl, bicyclic heterocyclic, or spiro heterocyclic can be substituted; and wherein J and K independently are C or N, provided that when J or K is N, R4 or R6 is absent at that position. Results of antibacterial assays for 10 I are tabulated for several gram neg. and gram pos. bacteria and for E. coli gyrase and compared to results for Ciprofloxacin. In vivo (mouse) median protective doses of 1-cyclopropyl-6-fluoro-8-methyl-7-[(R)-3-((S)-1-methylaminoethyl)pyrrolidin-1-yl]-1H-quinazolin-2(1H)-one and 7-[(R)-3-((S)-1-aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazolin-2(1H)-one hydrochloride (1) against S. pyogenes

are 10.8 and 3.6 mg/kg compared to >100 mg/kg for Ciprofloxacin. Results for antibacterial activity of 3 I against several Ciprofloxacin-resistant E. coli and S. aureus organisms are tabulated. Comparative pharmacokinetic behavior of a quinazolinone (1) and a 3-aminoquinazolinone in rats, dogs and monkeys are tabulated. .apprx.70 Example preps. are included. For example, 1-cyclopropyl-6-fluoro-8-methyl-7-[(R)-3-((S)-1-methylaminoethyl)pyrrolidin-1-yl]-1H-quinazolinone was prepared from 1-cyclopropyl-6,7-difluoro-8-methyl-1H-quinazolinone (0.79 mmol) and methyl[(R)-(S)-1-pyrrolidinyl-3-ylethyl]amine (2.4 mmol) in DMSO at 80° for 6 h.

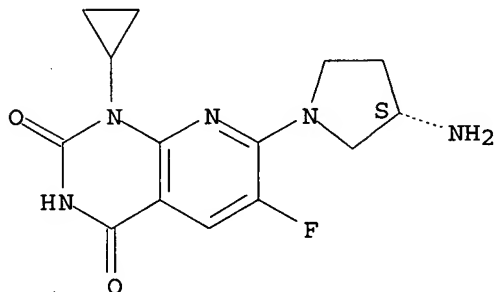
IT 479081-63-5P, 7-((S)-3-Aminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-1H-pyrido[2,3-d]pyrimidine-2,4-dione hydrochloride
479081-64-6P, 7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-1H-pyrido[2,3-d]pyrimidine-2,4-dione hydrochloride

(drug candidate; preparation of quinazolinones as antibacterial agents for quinolone-resistant bacteria)

RN 479081-63-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 7-[(3S)-3-amino-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

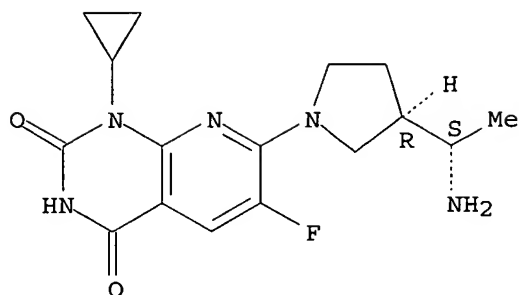


●x HCl

RN 479081-64-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 7-[(3R)-3-[(1S)-1-aminoethyl]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



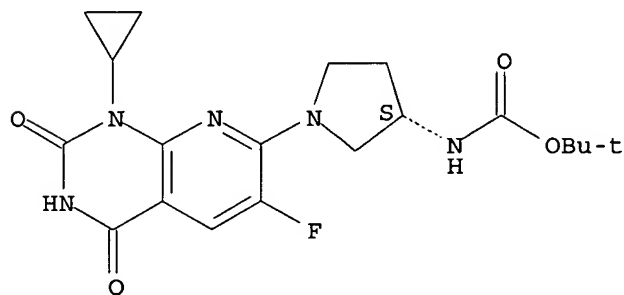
● x HCl

IT 479089-99-1P, [(S)-1-(1-Cyclopropyl-6-fluoro-2,4-dioxo-1,2,3,4-tetrahydropyrido[2,3-d]pyrimidin-7-yl)pyrrolidin-3-yl]carbamic acid tert-butyl ester 479090-00-1P, [(S)-1-[(R)-1-(1-Cyclopropyl-6-fluoro-2,4-dioxo-1,2,3,4-tetrahydropyrido[2,3-d]pyrimidin-7-yl)pyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester (preparation of quinazolinones as antibacterial agents for quinolone-resistant bacteria)

RN 479089-99-1 HCAPLUS

CN Carbamic acid, [(3S)-1-(1-cyclopropyl-6-fluoro-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

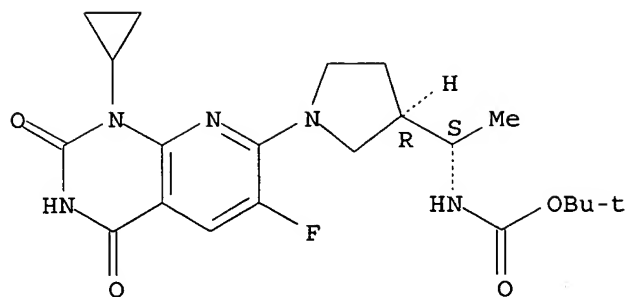
Absolute stereochemistry.



RN 479090-00-1 HCAPLUS

CN Carbamic acid, [(1S)-1-[(3R)-1-(1-cyclopropyl-6-fluoro-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl)-3-pyrrolidinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



- IC ICM C07D403-04
ICS C07D239-96; C07D471-04; C07D487-04; C07D498-08; C07D487-06;
C07D471-06; C07D409-04; C07D495-04; C07D413-04; C07D491-04;
A61P031-04
- CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 7, 10, 63
- IT 479081-55-5P, 7-((1 α ,5 α ,6 α)-6-Amino-3-azabicyclo[3.1.0]hex-3-yl)-6-fluoro-3H-1-(cyclopropylmethyl)-1H-quinazoline-2,4-dione hydrochloride 479081-56-6P, 1-Cyclopropyl-6-fluoro-8-methyl-7-[(R)-3-((S)-1-methylaminoethyl)pyrrolidin-1-yl]-1H-quinazoline-2,4-dione 479081-57-7P, 1-Cyclopropyl-6-fluoro-8-methoxy-7-[(R)-3-((S)-1-methylaminoethyl)pyrrolidin-1-yl]-1H-quinazoline-2,4-dione 479081-59-9P, 1-Cyclopropyl-7-dimethylamino-6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479081-60-2P 479081-61-3P, 7-[3-[1-Amino-1-(2-fluorophenyl)methyl]pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-62-4P, 1-Cyclopropyl-8-methyl-7-[(R)-3-((S)-1-methylaminoethyl)pyrrolidin-1-yl]-1H-pyrido[4,3-d]pyrimidine-2,4-dione hydrochloride 479081-63-5P, 7-((S)-3-Aminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-1H-pyrido[2,3-d]pyrimidine-2,4-dione hydrochloride 479081-64-6P, 7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-1H-pyrido[2,3-d]pyrimidine-2,4-dione hydrochloride 479081-65-7P, 7-((S)-3-Aminopyrrolidin-1-yl)-8-fluoro-5-methyl-5,6-dihydropyrrolo[3,2,1-i,j]quinazoline-1,3-dione hydrochloride 479081-66-8P, 7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-8-fluoro-5-methyl-5,6-dihydropyrrolo[3,2,1-i,j]quinazoline-1,3-dione hydrochloride 479081-67-9P, 8-((S)-3-Aminopyrrolidin-1-yl)-9-fluoro-5-methyl-6,7-dihydropyrido[3,2,1-i,j]quinazoline-1,3-dione hydrochloride 479081-68-0P, 8-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-9-fluoro-5-methyl-6,7-dihydro-5H-pyrido[3,2,1-i,j]quinazoline-1,3-dione hydrochloride 479081-70-4P, 1-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)cyclopropanecarboxylic acid amide 479081-71-5P, 7-Amino-9-[(R)-3-((S)-1-aminoethyl)pyrrolidin-1-yl]-8-fluoro-3-methyl-2,3-dihydro-1-oxa-3a,5-diazaphenalene-4,6-dione hydrochloride 479081-72-6P, 7-[(3AR*,6aS*)-4-Aminohexahydrocyclopenta[c]pyrrol-2-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-74-8P, 7-[3-(1-Amino-2-fluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-75-9P, 7-[3-(Amino(cyclopropyl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-76-0P, 7-((3R*,4S*)-3-Aminomethyl-4-

fluoromethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479081-77-1P, 7-(5-Aminomethylthiophen-3-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-79-3P, 7-(4-Amino-5,5-difluoro-4,5,6,7-tetrahydrobenzo[b]thiophen-2-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-80-6P, 7-[4-Amino-5,6-dihydro-4H-cyclopenta[b]thiophen-2-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-81-7P, 7-[(R)-3-(1-Aminocyclopropyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-82-8P, 7-(4-Amino-4,5,6,7-tetrahydrobenzo[b]thiophen-7-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-83-9P, 1-Cyclopropyl-6-fluoro-8-methyl-7-(7-methyl-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-1H-quinazoline-2,4-dione 479081-84-0P, 1-Cyclopropyl-6-fluoro-8-methyl-7-(4-methyl-5,6-dihydro-4H-thieno[2,3-c]pyrrol-2-yl)-1H-quinazoline-2,4-dione hydrochloride 479081-85-1P 479081-86-2P, 7-[3-(Amino(oxazol-4-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479081-87-3P, 7-((3R*,4S*)-3-Aminomethyl-4-fluoropyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione hydrochloride 479081-88-4P, 7-(3-Aminohexahydrofuro[2,3-c]pyrrol-5-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-89-5P, 7-[4-(1-Aminoethyl)-3,3-dimethylpyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-90-8P, 7-(4-Aminooctahydroisindol-2-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-91-9P, 7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-fluoromethoxy-1H-quinazoline-2,4-dione hydrochloride 479081-92-0P, 7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-8-difluoromethyl-6-fluoro-1H-quinazoline-2,4-dione hydrochloride 479081-93-1P, 7-[5-(1-Aminocyclopropyl)thiophen-2-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione hydrochloride 479081-94-2P, 7-[(R)-3-(1-Aminocyclopropyl)pyrrolidin-1-yl]-1-cyclopropyl-8-difluoromethoxy-6-fluoro-1H-quinazoline-2,4-dione 479081-95-3P, 7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-difluoromethoxy-1H-quinazoline-2,4-dione hydrochloride 479081-96-4P, 7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione hydrochloride 479081-97-5P, 1-Cyclopropyl-8-difluoromethoxy-7-((R)-1-methyl-2,3-dihydro-1H-isindol-5-yl)-1H-quinazoline-2,4-dione hydrochloride 479081-98-6P, 7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-8-difluoromethoxy-1H-quinazoline-2,4-dione hydrochloride 479081-99-7P, 7-[(3R*,4S*)-3-Aminomethyl-4-trifluoromethylpyrrolidin-1-yl]-1-cyclopropyl-8-difluoromethoxy-6-fluoro-1H-quinazoline-2,4-dione hydrochloride 479082-00-3P, 7-(3-Aminopiperidin-1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-01-4P, 1-Cyclopropyl-6-fluoro-8-methoxy-7-(octahydropyrrolo[3,4-c]pyridin-2-yl)-1H-quinazoline-2,4-dione 479082-02-5P, 7-((S)-3-Aminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479082-03-6P, 7-(3-Aminopiperidin-1-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479082-04-7P, 1-Cyclopropyl-6-fluoro-8-methyl-7-(octahydropyrrolo[3,4-c]pyridin-2-yl)-1H-quinazoline-2,4-dione 479082-05-8P, 7-((S)-3-Aminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-06-9P, 7-(3-Aminomethyl-3-methylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-

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479082-10-5P, 7-(3-Aminomethyl-3-benzylpyrrolidin-1-yl)-1-
cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione
479082-11-6P, 1-Cyclopropyl-6-fluoro-8-methoxy-7-
(octahydropyrrolo[3,4-b]pyridin-6-yl)-1H-quinazoline-2,4-dione
479082-12-7P, 7-(1-Amino-5-azaspiro[2.4]hept-5-yl)-1-cyclopropyl-6-
fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-13-8P,
7-(3-Aminomethyl-3-methylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-
methyl-1H-quinazoline-2,4-dione 479082-14-9P,
7-[(R)-3-(1-Amino-1-methylethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-
fluoro-8-methyl-1H-quinazoline-2,4-dione 479082-15-0P,
1-Cyclopropyl-6-fluoro-8-methyl-7-(octahydropyrrolo[3,4-b]pyridin-
6-yl)-1H-quinazoline-2,4-dione 479082-16-1P,
7-(3a-Aminomethyloctahydroisindol-2-yl)-1-cyclopropyl-6-fluoro-8-
methyl-1H-quinazoline-2,4-dione 479082-17-2P,
7-((3R*,4S*)-3-Amino-4-fluoromethylpyrrolidin-1-yl)-1-cyclopropyl-
6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-18-3P,
1-Cyclopropyl-7-[(3R)-3-(1-ethylaminoethyl)pyrrolidin-1-yl]-6-
fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-19-4P,
7-(3a-Aminomethyloctahydroisindol-2-yl)-1-cyclopropyl-6-fluoro-8-
methoxy-1H-quinazoline-2,4-dione 479082-20-7P,
7-((3R*,4S*)-3-Amino-4-fluoromethylpyrrolidin-1-yl)-1-cyclopropyl-
6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479082-21-8P,
1-Cyclopropyl-7-[(R)-3-((S)-1-ethylaminoethyl)pyrrolidin-1-yl]-6-
fluoro-8-methyl-1H-quinazoline-2,4-dione 479082-22-9P,
7-[(R)-3-((S)-1-Aminoethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-
8-methoxy-5-methyl-1H-quinazoline-2,4-dione hydrochloride
479082-23-0P, 7-[3-(Cyclopropylamino)-4-trifluoromethylpyrrolidin-
1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-
dione 479082-24-1P, 1-Cyclopropyl-6-fluoro-7-(3-
hydroxymethylpyrrolidin-1-yl)-8-methoxy-5-methyl-1H-quinazoline-
2,4-dione 479082-25-2P, 1-Cyclopropyl-6-fluoro-8-methoxy-5-
methyl-7-pyrrolidin-1-yl-1H-quinazoline-2,4-dione 479082-26-3P,
7-(3-Aminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-5-
methyl-1H-quinazoline-2,4-dione 479082-27-4P,
7-[3-(2-Amino-1-hydroxyethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-
fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479082-28-5P,
7-[3-(2-Amino-1-hydroxyethyl)-4-fluoropyrrolidin-1-yl]-1-
cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione
479082-29-6P, 1-Cyclopropyl-6-fluoro-8-methoxy-5-methyl-7-
morpholin-4-yl-1H-quinazoline-2,4-dione 479082-30-9P,
1-Cyclopropyl-6-fluoro-8-methoxy-5-methyl-7-piperazin-1-yl-1H-
quinazoline-2,4-dione 479082-31-0P, 1-Cyclopropyl-7-[3-[(2,4-
difluorophenyl)hydroxymethyl]-4-fluoropyrrolidin-1-yl]-6-fluoro-8-
methoxy-5-methyl-1H-quinazoline-2,4-dione 479082-32-1P,
1-Cyclopropyl-7-[3-[(4-fluorophenyl)hydroxymethyl]-4-
fluoropyrrolidin-1-yl]-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-
2,4-dione 479082-33-2P, 1-Cyclopropyl-6-fluoro-7-(4-
hydroxyoctahydroisindol-2-yl)-8-methoxy-5-methyl-1H-quinazoline-
2,4-dione 479082-34-3P, 1-Cyclopropyl-6-fluoro-7-[4-
hydroxyhexahydrocyclopenta[c]pyrrol-2-yl]-8-methoxy-5-methyl-1H-
quinazoline-2,4-dione 479082-35-4P, 5-Amino-7-[3-
(cyclopropylamino)-4-trifluoromethylpyrrolidin-1-yl]-1-cyclopropyl-
6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-36-5P,
5-Amino-1-cyclopropyl-6-fluoro-7-(3-hydroxymethylpyrrolidin-1-yl)-

8-methoxy-1H-quinazoline-2,4-dione 479082-37-6P,
 5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-7-pyrrolidin-1-yl-1H-
 quinazoline-2,4-dione 479082-38-7P, 5-Amino-7-(3-aminopyrrolidin-
 1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione
 479082-39-8P, 5-Amino-7-[3-(2-amino-1-hydroxyethyl)pyrrolidin-1-
 yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione
 479082-40-1P, 5-Amino-7-[3-(2-amino-1-hydroxyethyl)-4-
 fluoropyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-
 quinazoline-2,4-dione 479082-41-2P, 5-Amino-1-cyclopropyl-6-
 fluoro-8-methoxy-7-morpholin-4-yl-1H-quinazoline-2,4-dione
 479082-42-3P, 5-Amino-1-cyclopropyl-6-fluoro-8-methoxy-7-piperazin-
 1-yl-1H-quinazoline-2,4-dione 479082-43-4P, 5-Amino-1-
 cyclopropyl-7-[3-[(2,4-difluorophenyl)hydroxymethyl]-4-
 fluoropyrrolidin-1-yl]-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione
 479082-44-5P, 5-Amino-1-cyclopropyl-7-[3-[(4-
 fluorophenyl)hydroxymethyl]-4-fluoropyrrolidin-1-yl]-6-fluoro-8-
 methoxy-1H-quinazoline-2,4-dione 479082-45-6P,
 5-Amino-1-cyclopropyl-6-fluoro-7-(4-hydroxyoctahydroisindol-2-yl)-
 8-methoxy-1H-quinazoline-2,4-dione 479082-47-8P,
 5-Amino-1-cyclopropyl-6-fluoro-7-[4-hydroxyhexahydrocyclopenta[c]p
 yrrol-2-yl]-8-methoxy-1H-quinazoline-2,4-dione 479082-48-9P,
 7-[3-(Cyclopropylamino)-4-trifluoromethylpyrrolidin-1-yl]-1-
 cyclopropyl-6-fluoro-5-hydroxy-8-methoxy-1H-quinazoline-2,4-dione
 479082-49-0P, 1-Cyclopropyl-6-fluoro-7-(3-hydroxymethylpyrrolidin-
 1-yl)-5-hydroxy-8-methoxy-1H-quinazoline-2,4-dione 479082-50-3P,
 1-Cyclopropyl-6-fluoro-5-hydroxy-8-methoxy-7-pyrrolidin-1-yl-1H-
 quinazoline-2,4-dione 479082-51-4P, 7-(3-Aminopyrrolidin-1-yl)-1-
 cyclopropyl-6-fluoro-5-hydroxy-8-methoxy-1H-quinazoline-2,4-dione
 479082-52-5P, 7-[3-(2-Amino-1-hydroxyethyl)pyrrolidin-1-yl]-1-
 cyclopropyl-6-fluoro-5-hydroxy-8-methoxy-1H-quinazoline-2,4-dione
 479082-53-6P, 7-[3-(2-Amino-1-hydroxyethyl)-4-fluoropyrrolidin-1-
 yl]-1-cyclopropyl-6-fluoro-5-hydroxy-8-methoxy-1H-quinazoline-2,4-
 dione 479082-54-7P, 1-Cyclopropyl-6-fluoro-5-hydroxy-8-methoxy-7-
 morpholin-4-yl-1H-quinazoline-2,4-dione 479082-55-8P,
 1-Cyclopropyl-6-fluoro-5-hydroxy-8-methoxy-7-piperazin-1-yl-1H-
 quinazoline-2,4-dione 479082-56-9P, 1-Cyclopropyl-7-[3-[(2,4-
 difluorophenyl)hydroxymethyl]-4-fluoropyrrolidin-1-yl]-6-fluoro-5-
 hydroxy-8-methoxy-1H-quinazoline-2,4-dione 479082-57-0P,
 1-Cyclopropyl-7-[3-[(4-fluorophenyl)hydroxymethyl]-4-
 fluoropyrrolidin-1-yl]-6-fluoro-5-hydroxy-8-methoxy-1H-quinazoline-
 2,4-dione 479082-58-1P, 1-Cyclopropyl-6-fluoro-7-(4-
 hydroxyoctahydroisindol-2-yl)-5-hydroxy-8-methoxy-1H-quinazoline-
 2,4-dione 479082-59-2P, 1-Cyclopropyl-6-fluoro-7-[4-
 hydroxyhexahydrocyclopenta[c]pyrrol-2-yl]-5-hydroxy-8-methoxy-1H-
 quinazoline-2,4-dione 479082-60-5P, 7-[3-(1-Aminocyclopropyl)-4-
 trifluoromethylpyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-
 fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-61-6P,
 1-Cyclopropyl-5-difluoromethyl-6-fluoro-7-(3-
 hydroxymethylpyrrolidin-1-yl)-8-methoxy-1H-quinazoline-2,4-dione
 479082-62-7P, 7-(3-Aminopyrrolidin-1-yl)-1-cyclopropyl-5-
 difluoromethyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione
 479082-63-8P, 7-[3-(1-Amino-2-hydroxyethyl)-4-fluoropyrrolidin-1-
 yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methoxy-1H-
 quinazoline-2,4-dione 479082-64-9P, 1-Cyclopropyl-5-
 difluoromethyl-6-fluoro-8-methoxy-7-pyrrolidin-1-yl-1H-quinazoline-
 2,4-dione 479082-65-0P, 7-[3-(2-Amino-1-hydroxyethyl)pyrrolidin-
 1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methoxy-1H-
 quinazoline-2,4-dione 479082-66-1P, 1-Cyclopropyl-5-
 difluoromethyl-6-fluoro-8-methoxy-7-piperazin-1-yl-1H-quinazoline-
 2,4-dione 479082-67-2P, 1-Cyclopropyl-5-difluoromethyl-6-fluoro-

8-methoxy-7-morpholin-4-yl-1H-quinazoline-2,4-dione
479082-68-3P, 1-Cyclopropyl-5-difluoromethyl-6-fluoro-7-[3-fluoro-4-[(4-fluorophenyl)hydroxymethyl]pyrrolidin-1-yl]-8-methoxy-1H-quinazoline-2,4-dione 479082-69-4P, 1-Cyclopropyl-5-difluoromethyl-7-[3-[(2,4-difluorophenyl)hydroxymethyl]-4-fluoropyrrolidin-1-yl]-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-70-7P, 1-Cyclopropyl-5-difluoromethyl-6-fluoro-7-(4-hydroxyoctahydroisindol-2-yl)-8-methoxy-1H-quinazoline-2,4-dione 479082-71-8P, 1-Cyclopropyl-5-difluoromethyl-6-fluoro-7-[4-hydroxyhexahydrocyclopenta[c]pyrrol-2-yl]-8-methoxy-1H-quinazoline-2,4-dione 479082-72-9P, 7-[4-Aminooctahydrocyclohepta[c]pyrrol-2-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479082-73-0P, 1-Cyclopropyl-6-fluoro-7-(3-hydroxymethylpyrrolidin-1-yl)-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-74-1P, 7-(3-Aminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-75-2P, 7-[3-(1-Amino-2-hydroxyethyl)-4-fluoropyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-76-3P, 1-Cyclopropyl-6-fluoro-5,8-dimethyl-7-pyrrolidin-1-yl-1H-quinazoline-2,4-dione 479082-77-4P, 7-[3-(2-Amino-1-hydroxyethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-78-5P, 1-Cyclopropyl-6-fluoro-5,8-dimethyl-7-piperazin-1-yl-1H-quinazoline-2,4-dione 479082-79-6P, 1-Cyclopropyl-6-fluoro-5,8-dimethyl-7-morpholin-4-yl-1H-quinazoline-2,4-dione 479082-80-9P, 1-Cyclopropyl-6-fluoro-7-[3-fluoro-4-[(4-fluorophenyl)hydroxymethyl]pyrrolidin-1-yl]-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-81-0P, 1-Cyclopropyl-7-[3-[(2,4-difluorophenyl)hydroxymethyl]-4-fluoropyrrolidin-1-yl]-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-82-1P, 1-Cyclopropyl-6-fluoro-7-(4-hydroxyoctahydroisindol-2-yl)-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-83-2P, 1-Cyclopropyl-6-fluoro-7-[4-hydroxyhexahydrocyclopenta[c]pyrrol-2-yl]-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-84-3P, 1-Cyclopropyl-6-fluoro-7-[4-hydroxyoctahydrocyclohepta[c]pyrrol-2-yl]-5,8-dimethyl-1H-quinazoline-2,4-dione 479082-85-4P, 7-[3-(1-Aminocyclopropyl)-4-trifluoromethylpyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-86-5P, 1-Cyclopropyl-6-fluoro-7-(3-hydroxymethylpyrrolidin-1-yl)-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-87-6P, 7-(3-Aminopyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-88-7P, 7-[3-(1-Amino-2-hydroxyethyl)-4-fluoropyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-89-8P, 1-Cyclopropyl-6-fluoro-5-methoxy-8-methyl-7-pyrrolidin-1-yl-1H-quinazoline-2,4-dione 479082-90-1P, 7-[3-(2-Amino-1-hydroxyethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-91-2P, 1-Cyclopropyl-6-fluoro-5-methoxy-8-methyl-7-piperazin-1-yl-1H-quinazoline-2,4-dione 479082-92-3P, 1-Cyclopropyl-6-fluoro-5-methoxy-8-methyl-7-morpholin-4-yl-1H-quinazoline-2,4-dione 479082-93-4P, 1-Cyclopropyl-6-fluoro-7-[3-fluoro-4-[(4-fluorophenyl)hydroxymethyl]pyrrolidin-1-yl]-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-94-5P, 1-Cyclopropyl-7-[3-[(2,4-difluorophenyl)hydroxymethyl]-4-fluoropyrrolidin-1-yl]-6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-95-6P, 1-Cyclopropyl-6-fluoro-7-(4-hydroxyoctahydroisindol-2-yl)-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-96-7P, 1-Cyclopropyl-6-fluoro-7-[4-hydroxyhexahydrocyclopenta[c]pyrrol-2-yl]-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-97-8P,

1-Cyclopropyl-6-fluoro-7-[4-hydroxyoctahydrocyclohepta[c]pyrrol-2-yl]-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479082-98-9P,
 7-(3-Aminomethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479082-99-0P,
 7-[3-(1-Aminocyclopropyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-00-6P,
 7-[3-(1-Amino-1-methylethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-01-7P,
 7-[3-(1-Amino-2-fluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-02-8P,
 7-[3-(1-Amino-2,2-difluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-03-9P,
 7-[3-(1-Amino-2,2,2-trifluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-04-0P,
 7-[3-(1-Aminoethyl)-4-fluoropyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-05-1P,
 7-[3-[Amino(2,6-difluorophenyl)methyl]pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-06-2P,
 7-(3-Aminomethyl-4-fluoromethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-07-3P,
 7-[3-(Amino(thiazol-2-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-08-4P,
 7-[3-(Amino(cyclopropyl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-09-5P,
 7-(4-Aminoctahydroisindol-2-yl)-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-11-9P,
 7-[4-Aminoctahydrocyclohepta[c]pyrrol-2-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-12-0P,
 1-Cyclopropyl-6-fluoro-7-[3-(1-hydroxycyclopropyl)pyrrolidin-1-yl]-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-13-1P,
 7-[4-Aminohexahydrocyclopenta[c]pyrrol-2-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-14-2P,
 7-[3-(Amino(oxazol-4-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-5-methyl-1H-quinazoline-2,4-dione 479083-15-3P,
 5-Amino-7-(3-aminomethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-16-4P,
 5-Amino-7-[3-(1-aminocyclopropyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-17-5P,
 5-Amino-7-[3-(1-amino-1-methylethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-18-6P,
 5-Amino-7-[3-(1-amino-2-fluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-19-7P,
 5-Amino-7-[3-(1-amino-2,2-difluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-20-0P,
 5-Amino-7-[3-(1-amino-2,2,2-trifluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-21-1P,
 5-Amino-7-[3-(1-aminoethyl)-4-fluoropyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-22-2P,
 5-Amino-7-[3-[amino(2,6-difluorophenyl)methyl]pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-23-3P,
 5-Amino-7-(3-aminomethyl-4-fluoromethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-24-4P,
 5-Amino-7-[3-(amino(thiazol-2-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-25-5P,
 5-Amino-7-[3-(amino(cyclopropyl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione 479083-26-6P,
 5-Amino-7-(4-aminoctahydroisindol-2-yl)-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione

479083-27-7P, 5-Amino-7-[4-aminooctahydrocyclohepta[c]pyrrol-2-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione
479083-28-8P, 5-Amino-1-cyclopropyl-6-fluoro-7-[3-(1-hydroxycyclopropyl)pyrrolidin-1-yl]-8-methoxy-1H-quinazoline-2,4-dione
479083-29-9P, 5-Amino-7-[4-aminohexahydrocyclopenta[c]pyrrol-2-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione
479083-30-2P, 5-Amino-7-[3-(amino(oxazol-4-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methoxy-1H-quinazoline-2,4-dione
479083-31-3P, 7-(3-Aminomethylpyrrolidin-1-yl)-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-32-4P, 7-[3-(1-Aminocyclopropyl)pyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-33-5P, 7-[3-(1-Amino-1-methylethyl)pyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-34-6P, 7-[3-(1-Amino-2-fluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-35-7P, 7-[3-(1-Amino-2,2-difluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-36-8P, 7-[3-(1-Amino-2,2,2-trifluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-37-9P, 7-[3-(1-Aminoethyl)-4-fluoropyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-38-0P, 479083-39-1P, 7-(3-Aminomethyl-4-fluoromethylpyrrolidin-1-yl)-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-40-4P, 7-[3-(Amino(thiazol-2-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-41-5P, 7-[3-(Amino(cyclopropyl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-42-6P, 1-Cyclopropyl-5-difluoromethyl-6-fluoro-7-[3-(1-hydroxycyclopropyl)pyrrolidin-1-yl]-8-methyl-1H-quinazoline-2,4-dione
479083-43-7P, 7-[3-(Amino(oxazol-4-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-5-difluoromethyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-44-8P, 7-(3-Aminomethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-45-9P, 7-[3-(1-Aminocyclopropyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-46-0P, 7-[3-(1-Amino-2-fluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-47-1P, 7-[3-(1-Amino-2,2-difluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-48-2P, 7-[3-(1-Amino-2,2,2-trifluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-49-3P, 1-Cyclopropyl-7-[3-[(2,6-difluorophenyl)hydroxymethyl]pyrrolidin-1-yl]-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-50-6P, 7-(3-Aminomethyl-4-fluoromethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-51-7P, 7-[3-(Amino(thiazol-2-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-52-8P, 7-[3-(Amino(cyclopropyl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-53-9P, 1-Cyclopropyl-6-fluoro-7-[3-(1-hydroxycyclopropyl)pyrrolidin-1-yl]-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-54-0P, 7-[3-(Amino(oxazol-4-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5,8-dimethyl-1H-quinazoline-2,4-dione
479083-55-1P, 5-Amino-7-(3-aminomethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
479083-56-2P, 5-Amino-7-[3-(1-aminocyclopropyl)pyrrolidin-1-yl]-1-cyclopropyl-6-

fluoro-8-methyl-1H-quinazoline-2,4-dione 479083-57-3P,
 5-Amino-7-[3-(1-amino-1-methylethyl)pyrrolidin-1-yl]-1-cyclopropyl-
 6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479083-58-4P,
 5-Amino-7-[3-(1-amino-2,2,2-trifluoroethyl)pyrrolidin-1-yl]-1-
 cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
 479083-59-5P, 5-Amino-7-[3-(1-amino-2-fluoroethyl)pyrrolidin-1-yl]-
 1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
 479083-60-8P, 5-Amino-7-[3-(1-aminoethyl)-4-fluoropyrrolidin-1-yl]-
 1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
 479083-61-9P, 5-Amino-7-[3-(1-amino-2,2-difluoroethyl)pyrrolidin-1-
 yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione
 479083-62-0P, 5-Amino-1-cyclopropyl-7-[3-[(2,6-
 difluorophenyl)hydroxymethyl]pyrrolidin-1-yl]-6-fluoro-8-methyl-1H-
 quinazoline-2,4-dione 479083-63-1P, 5-Amino-7-(3-aminomethyl-4-
 fluoromethylpyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-
 quinazoline-2,4-dione 479083-64-2P, 5-Amino-7-[3-(amino(thiazol-
 2-yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-
 quinazoline-2,4-dione 479083-65-3P, 5-Amino-1-cyclopropyl-6-
 fluoro-7-[3-(1-hydroxycyclopropyl)pyrrolidin-1-yl]-8-methyl-1H-
 quinazoline-2,4-dione 479083-66-4P, 5-Amino-7-[3-(amino(oxazol-4-
 yl)methyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-
 quinazoline-2,4-dione 479083-67-5P, 7-[3-(1-Amino-2-
 fluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-fluoro-5-hydroxy-8-
 methyl-1H-quinazoline-2,4-dione 479083-68-6P,
 7-[3-(1-Amino-2,2-difluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-
 fluoro-5-hydroxy-8-methyl-1H-quinazoline-2,4-dione 479083-69-7P,
 7-[3-(1-Amino-2,2,2-trifluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-
 6-fluoro-5-hydroxy-8-methyl-1H-quinazoline-2,4-dione
 479083-70-0P, 7-[3-(Amino(thiazol-2-yl)methyl)pyrrolidin-1-yl]-1-
 cyclopropyl-6-fluoro-5-hydroxy-8-methyl-1H-quinazoline-2,4-dione
 479083-71-1P, 1-Cyclopropyl-6-fluoro-5-hydroxy-7-[3-(1-
 hydroxycyclopropyl)pyrrolidin-1-yl]-8-methyl-1H-quinazoline-2,4-
 dione 479083-72-2P, 7-[3-(Amino(oxazol-4-yl)methyl)pyrrolidin-1-
 yl]-1-cyclopropyl-6-fluoro-5-hydroxy-8-methyl-1H-quinazoline-2,4-
 dione 479083-73-3P, 7-[3-(1-Aminocyclopropyl)pyrrolidin-1-yl]-1-
 cyclopropyl-6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione
 479083-74-4P, 7-[3-(1-Amino-2-fluoroethyl)pyrrolidin-1-yl]-1-
 cyclopropyl-6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione
 479083-75-5P, 7-(3-Aminomethylpyrrolidin-1-yl)-1-cyclopropyl-6-
 fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479083-76-6P,
 7-[3-(1-Amino-2,2-difluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-6-
 fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione 479083-77-7P,
 7-[3-(1-Amino-2,2,2-trifluoroethyl)pyrrolidin-1-yl]-1-cyclopropyl-
 6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione
 479083-78-8P, 7-[3-(1-Aminoethyl)-4-fluoropyrrolidin-1-yl]-1-
 cyclopropyl-6-fluoro-5-methoxy-8-methyl-1H-quinazoline-2,4-dione
 (drug candidate; preparation of quinazolinones as antibacterial
 agents for quinolone-resistant bacteria)
 IT 59227-67-7P, 1-(5-Bromothiophen-3-yl)ethanone 108046-24-8P
 137234-92-5P, 2,4,5-Trifluoro-3-hydroxybenzoic acid methyl ester
 162959-93-5P, 1-Thiophen-2-ylcyclopropanecarbonitrile
 162959-94-6P, 1-Thiophen-2-ylcyclopropanecarboxylic acid
 178444-98-9P, 4-Bromo-2,5-difluoro-3-methylbenzoic acid
 195048-70-5P, 3-Difluoromethyl-2,4,5-trifluorobenzoic acid
 208166-53-4P, 4-Amino-2,5-difluoro-3-methylbenzoic acid methyl
 ester 343929-41-9P, 5,6-Dihydrocyclopenta[b]thiophen-4-one oxime
 405141-89-1P, 7-Methyl-6-trityl-4,5,6,7-tetrahydrothieno[2,3-
 c]pyridine 405142-42-9P, (1-Thiophen-2-ylcyclopropyl)carbamic
 acid tert-butyl ester 477700-40-6P, (R)-1-Pyrrolidin-3-
 ylcyclopropylamine 477700-56-4P, 4-(Oxazole-4-carbonyl)-1-((S)-1-

phenylethyl)pyrrolidin-2-one 477700-58-6P, 4-(Benzyloxyiminooxazol-4-ylmethyl)-1-((S)-1-phenylethyl)pyrrolidin-2-one 477700-59-7P, C-Oxazol-4-yl-C-[1-((S)-1-phenylethyl)pyrrolidin-3-yl]methylamine 477700-60-0P, C-Oxazol-4-yl-C-pyrrolidin-3-ylmethylamine 477700-69-9P, 1-Benzyl-3-(2-bromoacetyl)pyrrolidin-2-one 477700-70-2P, 1-Benzyl-3-(2-fluoroacetyl)pyrrolidin-2-one 477700-71-3P, 1-Benzyl-3-(1-benzylamino-2-fluoroethyl)pyrrolidin-2-one 477700-72-4P, Benzyl[1-(1-benzylpyrrolidin-3-yl)-2-fluoroethyl]amine 477700-73-5P, 2-Fluoro-1-pyrrolidin-3-ylethylamine 479089-75-3P, 2-Amino-4,5-difluoro-N-methoxybenzamide 479089-76-4P, 6,7-Difluoro-3-methoxy-1H-quinazoline-2,4-dione 479089-77-5P, 6,7-Difluoro-3-methoxy-1-(cyclopropylmethyl)-1H-quinazoline-2,4-dione 479089-78-6P, [3-((1 α ,5 α ,6 α)-1-(Cyclopropylmethyl)-6-fluoro-3-methoxy-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)-3-azabicyclo[3.1.0]hex-6-yl]carbamic acid tert-butyl ester 479089-79-7P, [3-((1 α ,5 α ,6 α)-1-(Cyclopropylmethyl)-6-fluoro-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)-3-azabicyclo[3.1.0]hex-6-yl]carbamic acid tert-butyl ester 479089-80-0P, [(S)-1-[(R)-1-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester 479089-81-1P, 4-((S)-3-tert-Butoxycarbonylaminopyrrolidin-1-yl)-3-chloro-2-(1-cyclopropylureido)-5-fluorobenzoic acid ethyl ester 479089-82-2P, [(S)-1-(8-Chloro-1-cyclopropyl-6-fluoro-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]carbamic acid tert-butyl ester 479089-85-5P, 5-Oxo-1-((S)-1-phenylethyl)pyrrolidine-3-carboxylic acid (methoxy)(methyl)amide 479089-87-7P, 4-[1-(2-Fluorophenyl)methanoyl]-1-((S)-1-phenylethyl)pyrrolidin-2-one 479089-88-8P, 4-[1-(2-Fluorophenyl)-1-hydroxyiminomethyl]-1-((S)-1-phenylethyl)pyrrolidin-2-one 479089-89-9P, 4-[1-Amino-1-(2-fluorophenyl)methyl]-1-((S)-1-phenylethyl)pyrrolidin-2-one 479089-90-2P, [1-(2-Fluorophenyl)-1-[(S)-1-phenylethyl)pyrrolidin-3-yl]methyl]carbamic acid tert-butyl ester 479089-91-3P, 3-[1-tert-Butoxycarbonylamino-1-(2-fluorophenyl)methyl]pyrrolidine-1-carboxylic acid benzyl ester 479089-92-4P, [1-(2-Fluorophenyl)-1-pyrrolidin-3-ylmethyl]carbamic acid tert-butyl ester 479089-93-5P, C-[1-(2-Fluorophenyl)-1-pyrrolidin-3-yl]methylamine 479089-94-6P, [1-[1-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]-1-(2-fluorophenyl)methyl]carbamic acid tert-butyl ester 479089-95-7P, 4,6-Dichloro-5-methylnicotinamide 479089-96-8P, 1-Cyclopropyl-3-[1-(4,6-dichloro-5-methylpyridin-3-yl)methanoyl]urea 479089-97-9P, 7-Chloro-1-cyclopropyl-8-methyl-1H-pyrido[4,3-d]pyrimidine-2,4-dione 479089-98-0P, [(S)-1-[(R)-1-(1-Cyclopropyl-8-methyl-2,4-dioxo-1,2,3,4-tetrahydropyrido[4,3-d]pyrimidin-7-yl)pyrrolidin-3-yl]ethyl]methylcarbamic acid tert-butyl ester 479089-99-1P, [(S)-1-(1-Cyclopropyl-6-fluoro-2,4-dioxo-1,2,3,4-tetrahydropyrido[2,3-d]pyrimidin-7-yl)pyrrolidin-3-yl]carbamic acid tert-butyl ester 479090-00-1P, [(S)-1-[(R)-1-(1-Cyclopropyl-6-fluoro-2,4-dioxo-1,2,3,4-tetrahydropyrido[2,3-d]pyrimidin-7-yl)pyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester 479090-01-2P, 3-(Ethylsulfanyl)-4,5-difluoro-2-methyl-1H-indole-7-carboxylic acid methyl ester 479090-02-3P, 4,5-Difluoro-2-methyl-1H-indole-7-carboxylic acid methyl ester 479090-03-4P, 4,5-Difluoro-2-methyl-2,3-dihydro-1H-indole-7-carboxylic acid methyl ester 479090-04-5P, 7,8-Difluoro-5-methyl-5,6-dihydro-5H-pyrrolo[3,2,1-i,j]quinazoline-1,3-dione

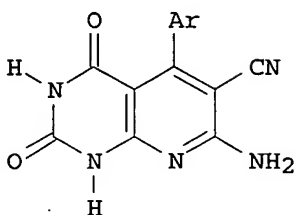
479090-05-6P, [(S)-1-(8-Fluoro-5-methyl-1,3-dioxo-2,3,5,6-tetrahydro-1H-pyrrolo[3,2,1-i,j]quinazolin-7-yl)pyrrolidin-3-yl]carbamic acid tert-butyl ester 479090-06-7P, [(S)-1-[(R)-1-(8-Fluoro-5-methyl-1,3-dioxo-2,3,5,6-tetrahydro-1H-pyrrolo[3,2,1-i,j]quinazolin-7-yl)pyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester 479090-07-8P, [(S)-1-(9-Fluoro-5-methyl-1,3-dioxo-2,3,6,7-tetrahydro-1H,5H-pyrido[3,2,1-i,j]quinazolin-8-yl)pyrrolidin-3-yl]carbamic acid tert-butyl ester 479090-08-9P, [(S)-1-[(R)-1-(9-Fluoro-5-methyl-1,3-dioxo-2,3,6,7-tetrahydro-1H,5H-pyrido[3,2,1-i,j]quinazolin-8-yl)pyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester 479090-09-0P, 4-(1-tert-Butoxycarbonyl-1-cyanomethyl)-2,5-difluoro-3-methylbenzoic acid ethyl ester 479090-10-3P, 4-Cyanomethyl-2,5-difluoro-3-methylbenzoic acid ethyl ester 479090-11-4P, 4-(1-Cyanocyclopropyl)-2,5-difluoro-3-methylbenzoic acid 479090-12-5P, 1-[1-[4-(1-Cyanocyclopropyl)-2,5-difluoro-3-methylphenyl]methanoyl]-3-cyclopropylurea 479090-13-6P, 8,9-Difluoro-3-methyl-7-nitro-2,3-dihydro-1-oxa-3a,5-diazaphenalene-4,6-dione 479090-14-7P, 7-Amino-8,9-difluoro-3-methyl-2,3-dihydro-1-oxa-3a,5-diazaphenalene-4,6-dione 479090-15-8P, [(S)-1-[(R)-1-(7-Amino-8-fluoro-3-methyl-4,6-dioxo-2,3,5,6-tetrahydro-4H-1-oxa-3a,5-diazaphenalene-9-yl)pyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester 479090-16-9P, [(3AR*,6aS*)-2-(1-Cyclopropyl-6-fluoro-8-methoxy-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)octahydrocyclopenta[c]pyrrol-4-yl]carbamic acid tert-butyl ester 479090-18-1P, [(3AR*,6aS*)-2-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)octahydrocyclopenta[c]pyrrol-4-yl]carbamic acid tert-butyl ester 479090-19-2P, 3-((Methoxy)(Methyl)carbonyl)pyrrolidine-1-carboxylic acid benzyl ester 479090-20-5P, 3-Cyclopropanecarbonylpyrrolidine-1-carboxylic acid benzyl ester 479090-21-6P, 3-(Cyclopropyl(hydroxyimino)methyl)pyrrolidine-1-carboxylic acid benzyl ester 479090-22-7P, C-Cyclopropyl-C-pyrrolidin-3-ylmethylamine 479090-23-8P, 4-Hydroxymethyl-1-((S)-1-phenylethyl)pyrrolidin-2-one 479090-25-0P, Methanesulfonic acid 5-oxo-1-((S)-1-phenylethyl)pyrrolidin-3-ylmethyl ester 479090-26-1P, 4-Fluoromethyl-1-((S)-1-phenylethyl)pyrrolidin-2-one 479090-27-2P 479090-28-3P 479090-29-4P, (3R*,4R*)-[4-Fluoromethyl-1-((S)-1-phenylethyl)pyrrolidin-3-yl]methanol 479090-30-7P, (3R*,4R*)-4-Fluoromethyl-1-((S)-1-phenylethyl)pyrrolidin-3-ylmethanesulfonic acid methyl ester 479090-31-8P, (3R*,4R*)-3-Azidomethyl-4-fluoromethyl-1-((S)-1-phenylethyl)pyrrolidine 479090-32-9P 479090-33-0P, (3R*,4S*)-C-[4-Fluoromethylpyrrolidin-3-yl]methylamine 479090-34-1P, 4-Bromo-2,5-difluoro-3-methylbenzamide 479090-35-2P, 1-(4-Bromo-2,5-difluoro-3-methylbenzoyl)-3-cyclopropylurea 479090-36-3P, 7-Bromo-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479090-37-4P, 4-Bromothiophene-2-carboxaldehyde O-benzyloxime 479090-38-5P, C-(4-Bromothiophen-2-yl)methylamine 479090-39-6P, (4-Bromothiophen-2-ylmethyl)carbamic acid tert-butyl ester 479090-40-9P, (4-(Tributylstannyl)thiophen-2-ylmethyl)carbamic acid tert-butyl ester 479090-41-0P, [4-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)thiophen-2-ylmethyl]carbamic acid tert-butyl ester 479090-42-1P, 7-[4-(tert-Butyldimethylsilyloxy)-5,5-difluoro-4,5,6,7-tetrahydrobenzo[b]thiophen-2-yl]-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479090-44-3P, Phosphoric acid 2-(1-cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-

tetrahydroquinazolin-7-yl)-5,5-difluoro-4,5,6,7-tetrahydrobenzo[b]thiophen-4-yl diphenyl ester 479090-45-4P, 7-(4-Azido-5,5-difluoro-4,5,6,7-tetrahydrobenzo[b]thiophen-2-yl)-1-cyclopropyl-6-fluoro-8-methyl-1H-quinazoline-2,4-dione 479090-46-5P, [2-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)-5,5-difluoro-4,5,6,7-tetrahydrobenzo[b]thiophen-4-yl]carbamic acid tert-butyl ester 479090-47-6P, 2,4,5-Trifluoro-3-methylbenzoic acid methyl ester 479090-48-7P, 4-Benzylamino-2,5-difluoro-3-methylbenzoic acid methyl ester 479090-49-8P, 2,5-Difluoro-4-iodo-3-methylbenzoic acid methyl ester 479090-50-1P, 2,5-Difluoro-4-iodo-3-methylbenzoic acid 479090-51-2P, 2,5-Difluoro-4-iodo-3-methylbenzamide 479090-52-3P, 1-Cyclopropyl-3-(2,5-difluoro-4-iodo-3-methylbenzoyl)urea 479090-53-4P, 1-Cyclopropyl-6-fluoro-7-iodo-8-methyl-1H-quinazoline-2,4-dione 479090-54-5P, [5,6-Dihydro-4H-cyclopenta[b]thiophen-4-yl]tritylamine 479090-55-6P, 1-Cyclopropyl-6-fluoro-8-methyl-7-[4-(tritylamino)-5,6-dihydro-4H-cyclopenta[b]thiophen-2-yl]-1H-quinazoline-2,4-dione 479090-56-7P, [1-[(R)-1-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]cyclopropyl]carbamic acid tert-butyl ester 479090-57-8P, [4,5,6,7-Tetrahydrobenzo[b]thiophen-7-yl]carbamic acid tert-butyl ester 479090-58-9P, (2-(Tributylstannyl)-4,5,6,7-tetrahydrobenzo[b]thiophen-7-yl)carbamic acid tert-butyl ester 479090-59-0P, [2-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)-4,5,6,7-tetrahydrobenzo[b]thiophen-7-yl]carbamic acid tert-butyl ester 479090-60-3P, 7-Methyl-2-(tributylstannyl)-6-trityl-4,5,6,7-tetrahydrothieno[2,3-c]pyridine 479090-61-4P, 1-Cyclopropyl-6-fluoro-8-methyl-7-(7-methyl-6-trityl-4,5,6,7-tetrahydrothieno[2,3-c]pyridin-2-yl)-1H-quinazoline-2,4-dione 479090-62-5P, 1-(5-Bromothiophen-3-yl)ethanone O-benzyl oxime 479090-63-6P, 1-(5-Bromothiophen-3-yl)ethylamine 479090-64-7P, 1-(5-Bromo-2-chloromethylthiophen-3-yl)ethylamine hydrochloride 479090-65-8P, 2-Bromo-4-methyl-4,6-dihydrothieno[2,3-c]pyrrole-5-carboxylic acid tert-butyl ester 479090-66-9P, 4-Methyl-2-(tributylstannyl)-4,6-dihydrothieno[2,3-c]pyrrole-5-carboxylic acid tert-butyl ester 479090-67-0P, 2-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)-4-methyl-4,6-dihydrothieno[2,3-c]pyrrole-5-carboxylic acid tert-butyl ester 479090-68-1P 479090-70-5P 479090-71-6P, [(3R*,4S*)-1-(1-Cyclopropyl-6-fluoro-8-methoxy-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)-4-fluoropyrrolidin-3-ylmethyl]carbamic acid tert-butyl ester 479090-72-7P, 5-Benzyl-3-(tetrahydropyran-2-yloxymethyl)-4,5,6,6a-tetrahydro-3aH-pyrrolo[3,4-d]isoxazole 479090-73-8P, 4-[1-Amino-2-(tetrahydropyran-2-yloxy)ethyl]-1-benzylpyrrolidin-3-ol 479090-74-9P, [1-(1-Benzyl-4-hydroxypyrrolidin-3-yl)-2-(tetrahydropyran-2-yloxy)ethyl]carbamic acid tert-butyl ester 479090-75-0P, [1-(1-Benzyl-4-hydroxypyrrolidin-3-yl)-2-hydroxyethyl]carbamic acid tert-butyl ester 479090-76-1P, (5-Benzylhexahydrofuro[2,3-c]pyrrol-3-yl)carbamic acid tert-butyl ester 479090-77-2P, (Hexahydrofuro[2,3-c]pyrrol-3-yl)carbamic acid tert-butyl ester 479090-78-3P, [5-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)hexahydrofuro[2,3-c]pyrrol-3-yl]carbamic acid tert-butyl ester 479090-79-4P, [1-[1-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)-4,4-dimethylpyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester 479090-80-7P, [2-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-

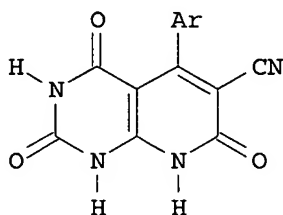
tetrahydroquinazolin-7-yl]octahydroisoindol-4-yl]carbamic acid
tert-butyl ester 479090-82-9P, 3-tert-Butoxycarbonylmethoxy-
2,4,5-trifluorobenzoic acid methyl ester 479090-83-0P,
3-Carboxymethoxy-2,4,5-trifluorobenzoic acid methyl ester
479090-84-1P, 2,4,5-Trifluoro-3-fluoromethoxybenzoic acid methyl
ester 479090-85-2P, 2,4,5-Trifluoro-3-fluoromethoxybenzamide
479090-86-3P, 1-Cyclopropyl-3-(2,4,5-trifluoro-3-
fluoromethoxybenzoyl)urea 479090-87-4P, 1-Cyclopropyl-6,7-
difluoro-8-fluoromethoxy-1H-quinazoline-2,4-dione 479090-88-5P,
[(S)-1-[(R)-1-(1-Cyclopropyl-6-fluoro-8-fluoromethoxy-2,4-dioxo-
1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]ethyl]carbamic
acid tert-butyl ester 479090-89-6P, 1-Cyclopropyl-3-(3-
difluoromethyl-2,4,5-trifluorobenzoyl)urea 479090-90-9P,
1-Cyclopropyl-8-difluoromethyl-6,7-difluoro-1H-quinazoline-2,4-
dione 479090-91-0P, [(S)-1-[(R)-1-(1-Cyclopropyl-8-
difluoromethyl-6-fluoro-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-
yl)pyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester
479090-92-1P, [1-(5-(Tributylstannyl)thiophen-2-
yl)cyclopropyl]carbamic acid tert-butyl ester 479090-93-2P,
[1-[5-(1-Cyclopropyl-6-fluoro-8-methyl-2,4-dioxo-1,2,3,4-
tetrahydroquinazolin-7-yl)thiophen-2-yl]cyclopropyl]carbamic acid
tert-butyl ester 479090-94-3P, 1-Cyclopropyl-3-(3-
difluoromethoxy-2,4,5-trifluorobenzoyl)urea 479090-95-4P,
1-Cyclopropyl-8-difluoromethoxy-6,7-difluoro-1H-quinazoline-2,4-
dione 479090-96-5P 479090-97-6P, Dibenzyl[1-[(R)-1-((S)-1-
phenylethyl)pyrrolidin-3-yl]cyclopropyl]amine 479090-98-7P,
[(S)-1-[(R)-1-(1-Cyclopropyl-6-fluoro-8-difluoromethoxy-2,4-dioxo-
1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]ethyl]carbamic
acid tert-butyl ester 479090-99-8P, 1-Cyclopropyl-6,7-difluoro-
5,8-dimethyl-1H-quinazoline-2,4-dione 479091-00-4P,
[(S)-1-[(R)-1-(1-Cyclopropyl-6-fluoro-5,8-dimethyl-2,4-dioxo-
1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]ethyl]carbamic
acid tert-butyl ester 479091-01-5P, 2,4-Dibromo-3-
difluoromethoxybenzamide 479091-02-6P, 1-Cyclopropyl-3-(2,4-
dibromo-3-difluoromethoxybenzoyl)urea 479091-03-7P,
7-Bromo-1-cyclopropyl-8-difluoromethoxy-1H-quinazoline-2,4-dione
479091-04-8P, 1-Cyclopropyl-8-difluoromethoxy-7-((R)-1-methyl-2-
trityl-2,3-dihydro-1H-isoindol-5-yl)-1H-quinazoline-2,4-dione
479091-05-9P, (R)-5-(1-Cyclopropyl-8-difluoromethoxy-2,4-dioxo-
1,2,3,4-tetrahydroquinazolin-7-yl)-1-methyl-1,3-dihydroisoindole-2-
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yl)pyrrolidin-3-yl]ethyl]carbamic acid tert-butyl ester
479091-13-9P, [(3R*,4S*)-1-(1-Cyclopropyl-8-difluoromethoxy-6-
fluoro-2,4-dioxo-1,2,3,4-tetrahydroquinazolin-7-yl)-4-
trifluoromethylpyrrolidin-3-ylmethyl]carbamic acid tert-butyl
ester 479091-31-1P, 1-Cyclopropyl-6,7-difluoro-8-methoxy-5-
methyl-1H-quinazoline-2,4-dione 479091-32-2P,
[(S)-1-[(R)-1-(1-Cyclopropyl-6-fluoro-8-methoxy-5-methyl-2,4-dioxo-
1,2,3,4-tetrahydroquinazolin-7-yl)pyrrolidin-3-yl]ethyl]carbamic
acid tert-butyl ester

(preparation of quinazolinones as antibacterial agents for
quinolone-resistant bacteria)

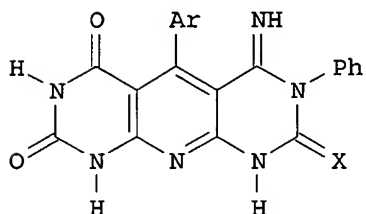
L36 ANSWER 11 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:691240 HCAPLUS
 DOCUMENT NUMBER: 138:106660
 TITLE: Pyrido[2,3-d]pyrimidines and
 pyrimido[5',4':5,6]pyrido[2,3-d]pyrimidines as
 new antiviral agents: synthesis and biological
 activity
 AUTHOR(S): Nasr, Magda N.; Gineinah, Magdy M.
 CORPORATE SOURCE: Department of Medicinal Chemistry, Faculty of
 Pharmacy, University of Mansoura, Mansoura,
 35516, Egypt
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (
 2002), 335(6), 289-295
 CODEN: ARPMAS; ISSN: 0365-6233
 PUBLISHER: Wiley-VCH Verlag GmbH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 138:106660
 GI



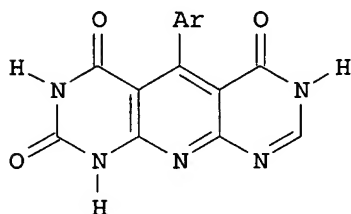
I



II



III



IV

AB A series of 7-amino- and 7-oxo-5-aryl-6-cyanopyrido[2,3-d]pyrimidines, I [Ar = 4-ClC₆H₄, 2-BrC₆H₄, 4-BrC₆H₄, 3-HOC₆H₄, 3-O₂NC₆H₄, 2,4-(MeO)₂C₆H₃, 3,4-(MeO)₂C₆H₃] and II [Ar = 4-BrC₆H₄, 3-HOC₆H₄, 2,4-(MeO)₂C₆H₃], resp., and pyrimido[5',4':5,6]pyrido[2,3-d]pyrimidines III [Ar = 4-ClC₆H₄, 4-BrC₆H₄, 2,4-(MeO)₂C₆H₃, 3,4-(MeO)₂C₆H₃, X = S, O] and IV (Ar = 4-ClC₆H₄, 3-O₂NC₆H₄) were synthesized and investigated as antiviral agents. Different synthetic strategies for the preparation of the target compds. were explored. A synthetic procedure for I and II starting with 6-amino-1,2,3,4-tetrahydro-2,4-dioxypyrimidine, proper aldehyde, and malononitrile or Et cyanoacetate, resp., in a one-pot reaction proved to be the method of choice for preparation of compds. of such type. Construction of another pyrimidine ring on the pyridine nucleus of I was achieved either by reaction with Ph iso(thio)cyanate or with formic acid to

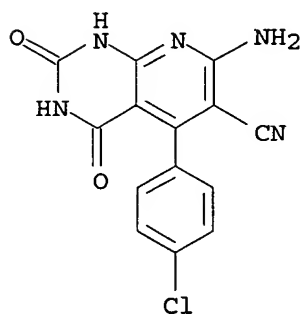
yield III and IV, resp. The structure of the prepared compds. was confirmed through elemental anal. and spectral investigation. Most of the newly synthesized compds. were subjected to antiviral activity testing against herpes simplex virus (HSV) where some of them show good activities.

IT 187398-61-4P 487061-95-0P

(preparation of pyridopyrimidines via cyclocondensation of aminotetrahydrodioxopyrimidine with malonodinitrile and benzaldehydes)

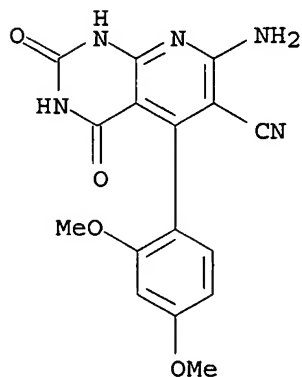
RN 187398-61-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(4-chlorophenyl)-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 487061-95-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(2,4-dimethoxyphenyl)-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)

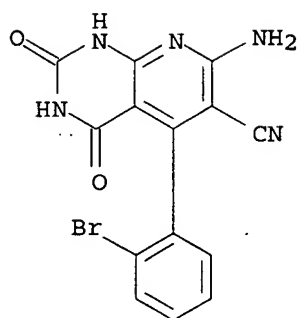


IT 487061-91-6P 487061-93-8P

(preparation of pyridopyrimidines via cyclocondensation of aminotetrahydrodioxopyrimidine with malonodinitrile and benzaldehydes)

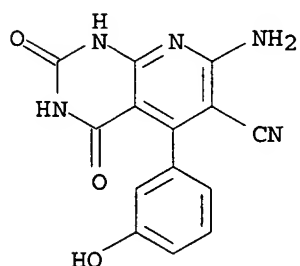
RN 487061-91-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(2-bromophenyl)-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 487061-93-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1,2,3,4-tetrahydro-5-(3-hydroxyphenyl)-2,4-dioxo- (9CI) (CA INDEX NAME)

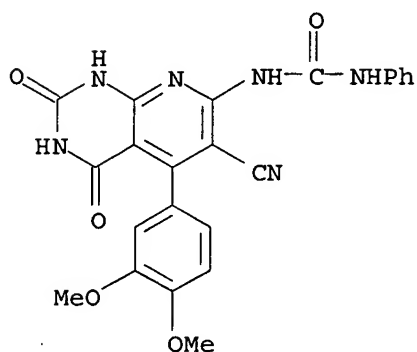


IT 487062-04-4P

(preparation of pyrimidopyridopyrimidines via addition of amino(cyano)pyridopyrimidines to phenylisocyanate and phenylisothiocyanate followed by cyclization)

RN 487062-04-4 HCAPLUS

CN Urea, N-[6-cyano-5-(3,4-dimethoxyphenyl)-1,2,3,4-tetrahydro-2,4-dioxopyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



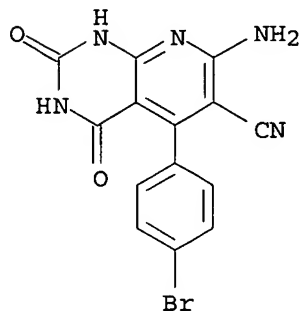
IT 487061-92-7P 487061-94-9P 487061-96-1P

(preparation, antiviral activity, cytotoxicity, and structure-activity relationship of pyridopyrimidines via cyclocondensation of aminotetrahydrodioxopyrimidine with

malonodinitrile and benzaldehydes)

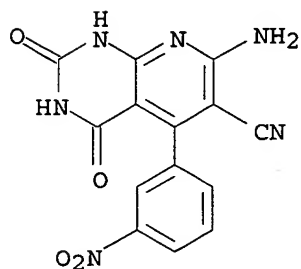
RN 487061-92-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(4-bromophenyl)-
1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



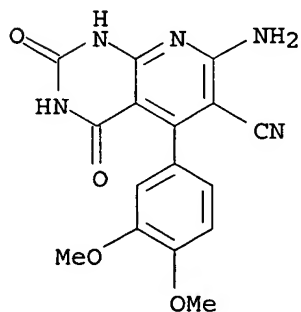
RN 487061-94-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1,2,3,4-tetrahydro-
5-(3-nitrophenyl)-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 487061-96-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(3,4-
dimethoxyphenyl)-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX
NAME)



IT 487061-97-2P 487061-98-3P 487061-99-4P

487062-00-0P 487062-01-1P 487062-02-2P

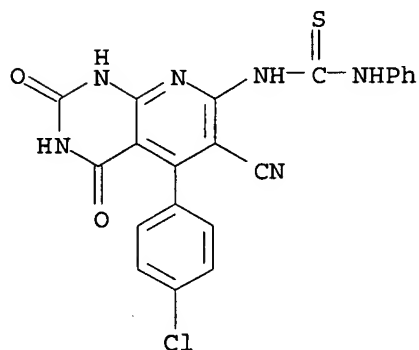
487062-03-3P

(preparation, antiviral activity, cytotoxicity, and
structure-activity relationship of pyrimidopyridopyrimidines

via addition of amino(cyano)pyridopyrimidines to phenylisocyanate and phenylisothiocyanate followed by cyclization)

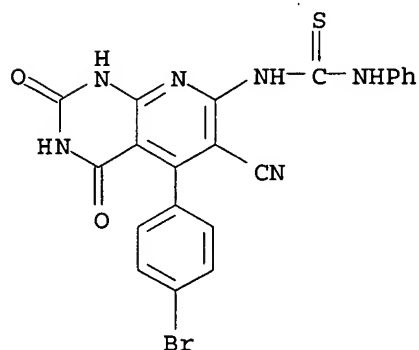
RN 487061-97-2 HCAPLUS

CN Thiourea, N-[5-(4-chlorophenyl)-6-cyano-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



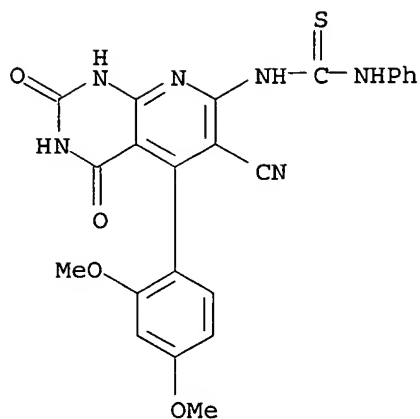
RN 487061-98-3 HCAPLUS

CN Thiourea, N-[5-(4-bromophenyl)-6-cyano-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



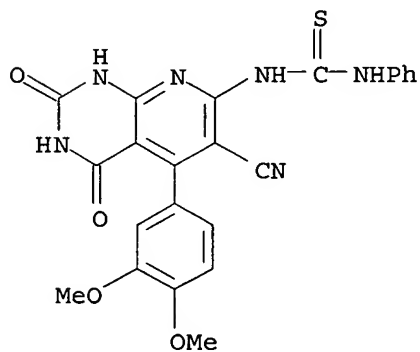
RN 487061-99-4 HCAPLUS

CN Thiourea, N-[6-cyano-5-(2,4-dimethoxyphenyl)-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



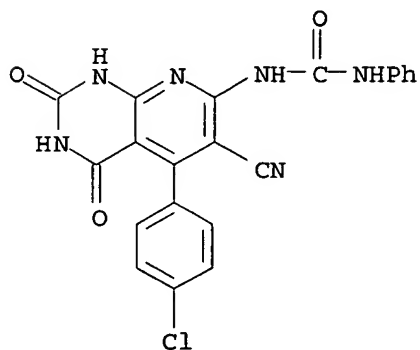
RN 487062-00-0 HCAPLUS

CN Thiourea, N-[6-cyano-5-(3,4-dimethoxyphenyl)-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)

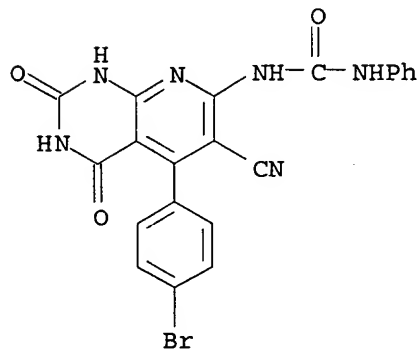


RN 487062-01-1 HCAPLUS

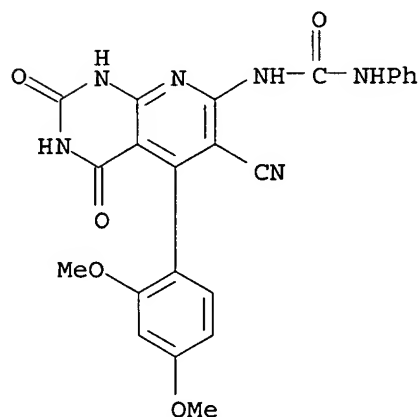
CN Urea, N-[5-(4-chlorophenyl)-6-cyano-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 487062-02-2 HCAPLUS
 CN Urea, N-[5-(4-bromophenyl)-6-cyano-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 487062-03-3 HCAPLUS
 CN Urea, N-[6-cyano-5-(2,4-dimethoxyphenyl)-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 10
 IT 187398-61-4P 487061-95-0P
 (preparation of pyridopyrimidines via cyclocondensation of aminotetrahydrodioxypyrimidine with malonodinitrile and benzaldehydes)
 IT 487061-91-6P 487061-93-8P
 (preparation of pyridopyrimidines via cyclocondensation of aminotetrahydrodioxypyrimidine with malonodinitrile and benzaldehydes)
 IT 487062-04-4P
 (preparation of pyrimidopyridopyrimidines via addition of amino(cyano)pyridopyrimidines to phenylisocyanate and phenylisothiocyanate followed by cyclization)
 IT 487061-92-7P 487061-94-9P 487061-96-1P

(preparation, antiviral activity, cytotoxicity, and structure-activity relationship of pyridopyrimidines via cyclocondensation of aminotetrahydrodioxypyrimidine with malonodinitrile and benzaldehydes)

IT 487061-97-2P 487061-98-3P 487061-99-4P
487062-00-0P 487062-01-1P 487062-02-2P
487062-03-3P

(preparation, antiviral activity, cytotoxicity, and structure-activity relationship of pyrimidopyridopyrimidines via addition of amino(cyano)pyridopyrimidines to phenylisocyanate and phenylisothiocyanate followed by cyclization)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L36 ANSWER 12 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:637680 HCAPLUS

DOCUMENT NUMBER: 137:185502

TITLE: Preparation of 2,6-disubstituted
7-oxopyrido[2,3-d]pyrimidines for treating p38
mediated disorders

INVENTOR(S): Chen, Jian Jeffrey; Dunn, James Patrick;
Goldstein, David Michael; Stahl, Christoph
Martin

PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.

SOURCE: PCT Int. Appl., 207 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002064594

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CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW
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 BR 2002007172 A 20040330 BR 2002-7172

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PRIORITY APPLN. INFO.:

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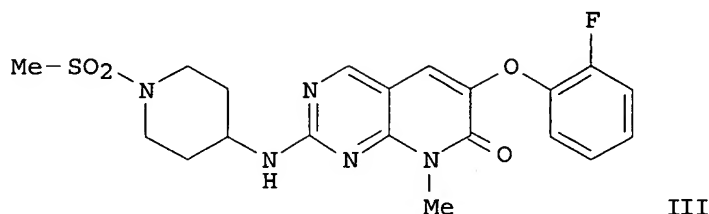
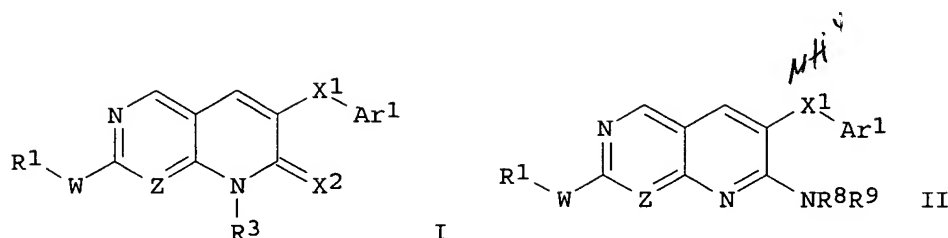
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OTHER SOURCE(S) : MARPAT 137:185502
GI



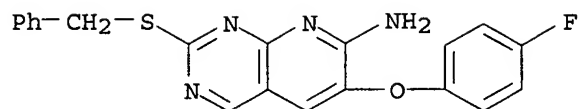
AB The title compds. with general formula I or II [wherein Z = N or CH; W = NR₂; X₁ = O, NR₄, S, CR₅R₆, or CO; R₄, R₅, and R₆ = independently H or alkyl; X₂ = O or NR₇; Ar₁ = (hetero)aryl; R₂ = H, alkyl, acyl, alkoxy, carbonyl, aryloxy, carbonyl, heteroalkyl(oxy)carbonyl, or R₂₁-R₂₂; R₂₁ = alkylene or CO; R₂₂ = alkyl or alkoxy; R₁ = H, (halo)alkyl, (hetero)aryl, (hetero)aralkyl, cyclo(alkyl)alkyl, hetero(cyclyl)alkyl, cyanoalkyl, heterocyclyl, or substituted hetero(alkyl)cycloalkyl, heterocycloamino, or acyl(alkylene); R₃ = H, (cyclo)alkyl, cycloalkylalkyl, aryl, aralkyl, haloalkyl, heteroalkyl, cyanoalkyl, acylalkylene, (un)substituted amino; R₇ = H or alkyl; R₈ and R₉ = independently H, (cyclo)alkyl, aryl(sulfonyl), aralkyl, cycloalkylalkyl, heteroalkyl, alkylsulfonyl, acyl, etc.; and pharmaceutically acceptable salts thereof] were prepared. For example, the substitution reaction of 6-(2-fluorophenoxy)-2-methyl-2-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7(8H)-one (preparation given) and 1-(methylsulfonyl)piperidin-4-amine (preparation given), followed by salt formation, gave the phenoxypyrido[2,3-d]pyrimidinone III•HCl. I and II have IC₅₀ activity against p38 kinase in the range of 0.1-5000 nM, with the majority being 1-1000 nM. I and II are useful for the treatment of arthritis, Crohn's disease, irritable bowel syndrome, adult respiratory distress syndrome, chronic obstructive pulmonary disease, or Alzheimer's disease (no data).

IT 449809-32-9P 449809-34-1P 449809-35-2P
449810-78-0P

(inhibitor; preparation of oxypyrido[2,3-d]pyrimidines for treating p38 mediated disorders)

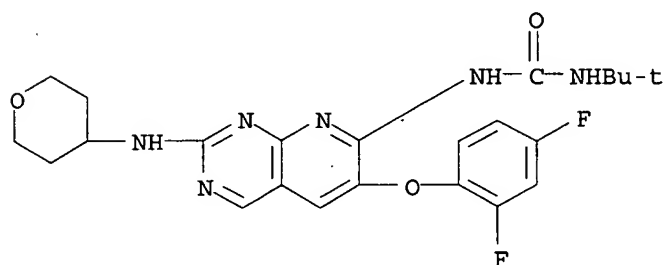
RN 449809-32-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(4-fluorophenoxy)-2-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



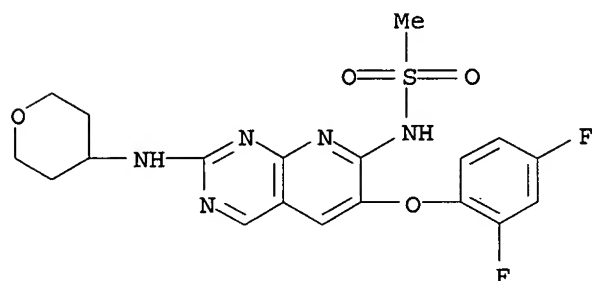
RN 449809-34-1 HCAPLUS

CN Urea, N-[6-(2,4-difluorophenoxy)-2-[(tetrahydro-2H-pyran-4-yl)amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-(9CI) (CA INDEX NAME)



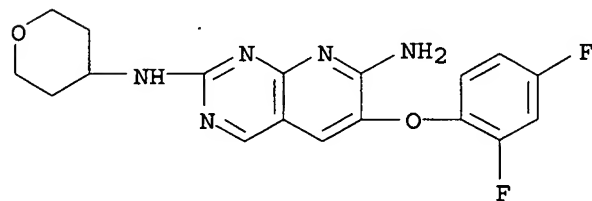
RN 449809-35-2 HCAPLUS

CN Methanesulfonamide, N-[6-(2,4-difluorophenoxy)-2-[(tetrahydro-2H-pyran-4-yl)amino]pyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



RN 449810-78-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,4-difluorophenoxy)-N2-(tetrahydro-2H-pyran-4-yl)-(9CI) (CA INDEX NAME)



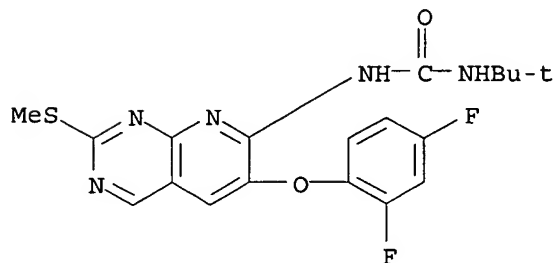
IT 449811-24-9P 449811-26-1P 449811-27-2P

(intermediate; preparation of oxypyrido[2,3-d]pyrimidines for

treating p38 mediated disorders)

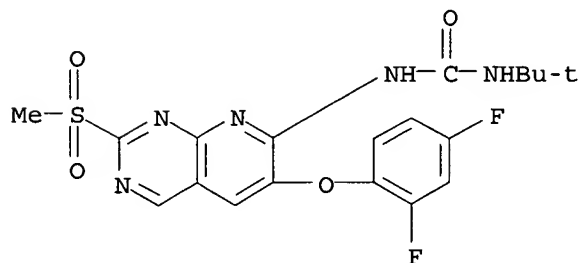
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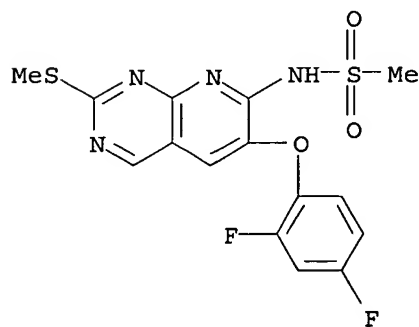
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RN 449811-27-2 HCAPLUS

CN Methanesulfonamide, N-[6-(2,4-difluorophenoxy)-2-(methylthio)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



IC ICM C07D487-04

ICS C07D471-04; C07D519-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

IT 449808-60-0P 449808-61-1P 449808-63-3P 449808-65-5P

449808-66-6P	449808-67-7P	449808-68-8P	449808-69-9P
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(inhibitor; preparation of oxopyrido[2,3-d]pyrimidines for treating
p38 mediated disorders)

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(intermediate; preparation of oxopyrido[2,3-d]pyrimidines for
 treating p38 mediated disorders)

L36 ANSWER 13 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:240780 HCAPLUS

DOCUMENT NUMBER: 136:279442

TITLE: Preparation of thienopyrimidinecarboxamides,
 quinazolinecarboxamides, and related compounds
 as luteinizing hormone agonists.

INVENTOR(S): Timmers, Cornelis Marius; Karstens, Willem
 Frederik Johan

PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024703	A1	20020328	WO 2001-EP10743	2001 0917

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 NZ, PH, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ,
 VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, TJ, TM
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PRIORITY APPLN. INFO.:

EP 2000-203287

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WO 2001-EP10743

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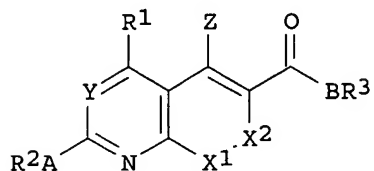
2001
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OTHER SOURCE(S):

MARPAT 136:279442

GI



I

AB Title compds. [I; R1 = (substituted) cycloalkyl, heterocycloalkyl,
aryl, heteroaryl; R2 = alkyl, alkenyl, alkynyl, aryl, heteroaryl;

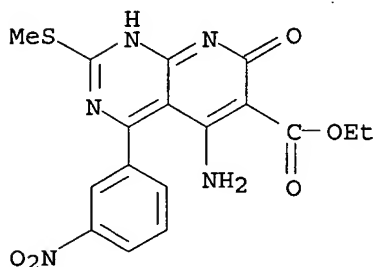
R3 = alkyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl; Y = CH, N; Z = NH₂, OH; A = S, NH, NR, O, bond; B = NH, O, bond; X1-X2 = C:C, CONH, CO₂, C:N, S, O], were prepared Thus, S-methylisothiurea sulfate, 3-MeOC₆H₄CHO, EtO₂CCH₂CN, and K₂CO₃ were stirred 5 h at 60° in EtOH to give 5-cyano-4-(3-methoxyphenyl)-2-methylthio-6-hydroxypyrimidine. This was stirred with POCl₃ and PhNMe₂ in dioxane at 80° for 3 h to give 6-chloro-5-cyano-4-(3-methoxyphenyl)-2-methylthiopyrimidine. The latter was stirred with KO^tMe₃ and EtO₂CCH₂SH in THF for 1 h to give Et 5-amino-4-(3-methoxyphenyl)-2-methylthiothieno[2,3-d]pyrimidine-6-carboxylate. This was converted to title compound tert-Bu 5-amino-2-methylthio-4-(3-methoxycarbonyloxy)phenylthieno[2,3-d]pyrimidine-6-carboxamide in several steps. Several I stimulated human LH receptors in CHO cells with IC₅₀ = 10⁻⁷ to 10⁻⁸ M.

IT 405891-19-2P

(preparation of thienopyrimidinecarboxamides, quinazolinecarboxamides, and related compds. as LH agonists)

RN 405891-19-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 5-amino-1,7-dihydro-2-(methylthio)-4-(3-nitrophenyl)-7-oxo-, ethyl ester (9CI) (CA INDEX NAME)



IC ICM C07D495-04

ICS C07D239-78; A61K031-519; A61P005-24; C07D487-04; C07D471-04; C07D491-04; C07D215-48; C07D495-04; C07D333-00; C07D239-00; C07D487-04; C07D239-00; C07D221-00

CC 28-2 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 2

IT	405890-84-8P	405890-85-9P	405890-86-0P	405890-87-1P
	405890-88-2P	405890-89-3P	405890-90-6P	405890-91-7P
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	405891-21-6P			

(preparation of thienopyrimidinecarboxamides, quinazolinecarboxamides, and related compds. as LH agonists)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 14 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:123003 HCAPLUS

DOCUMENT NUMBER: 136:183833
 TITLE: Preparation of 2-(4-pyridyl)amino-6-dialkoxyphenyl-pyrido[2,3-d]pyrimidin-7-ones as novel antiangiogenic agents useful for the treatment of diseases associated with aberrant blood vessel proliferation.
 INVENTOR(S): Hamby, James Marino; Klutchko, Sylvester; Kramer, James Bernard
 PATENT ASSIGNEE(S): Warner-Lambert Company, USA
 SOURCE: PCT Int. Appl., 51 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002012238	A2	20020214	WO 2001-US22881	2001 0720
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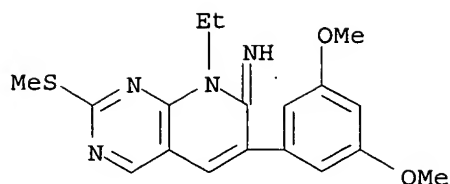
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
 *

AB The invention discloses the preparation and the use of title compds. I, wherein: R1, R2, R5, R6 = H, halogen, alkyl, alkoxy, thio, thioalkyl, hydroxy, alkanoyl, nitrile, nitro, alkanoyloxy, CF3, alkyl ester, NH2 or derivs., aminoalkoxy, etc.; R3, R4 = alkyl, or haloalkyl; R7 = H, alkyl, alkenyl, alkynyl, or cycloalkyl; including their pharmaceutically acceptable salts and compns. as antiangiogenic agents. Compds. I, are useful for treating diseases, resulting from uncontrolled cellular proliferation such as cancer, atherosclerosis, rheumatoid arthritis, and psoriasis. The invention compds. exhibited greater selectivity for inhibiting VEGF and FGF, without inhibiting the Src family c-Src and Lck kinases. Claims include 12 specific compds. and the syntheses of 5 especially preferred compds. are described. For example, condensation of 3,5-dimethoxyphenylacetonitrile with aldehyde II, followed by acylation of the resultant imine, hydrolysis, oxidation, and sulfoxide displacement with the lithium salt of 4-amino-2,6-dimethoxypyridine, provided the most preferred compound III in 5 steps. Tyrosine kinase inhibition data (IC50 = μ M) was disclosed for compound I (R1, R5, R6 = H; R2 = 3-Cl; R3, R4 = Me; and R7 = Et) against: FGFR = 0.0002, VEGF-2 = 0.003, PDGF = 5, Lck = 2.77, and c-Src = >4. Inhibition of serum-stimulated HUVEC cell proliferation data (IC50 = μ M) of compound I (R1, R2, R5, R6 = H; R3, R4 = Me; and R7 = Et) against HUVEC = 0.009, A90 = 2.92, and C6 = >25 μ M was also provided. Metabolic stability and transport studies of compound I (R1, R2, R5, R6 = H; R3, R4 = Me; and R7 = Et) with human and mice liver S9 prepns. indicated half-lives > 200 min. Also investigated, the in vivo anticancer efficacy of compound I (R1, R2, R5, R6 = H; R3, R4 = Me; and R7 = Et) against mammary adenocarcinoma M16/C: at 5 mg/kg dosage yielded a median mass of treated tumors/median mass of control tumor ratio of 39% with a net gain in subject body weight

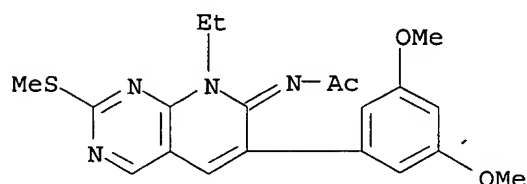
IT 398517-67-4P 398517-68-5P
 (intermediate; preparation of pyrido[2,3-d]pyrimidine-7-ones as antiangiogenic agents)

RN 398517-67-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(8H)-imine, 6-(3,5-dimethoxyphenyl)-8-ethyl-2-(methylthio)- (9CI) (CA INDEX NAME)

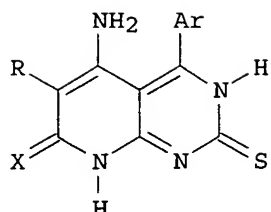


RN 398517-68-5 HCAPLUS
 CN Acetamide, N-[6-(3,5-dimethoxyphenyl)-8-ethyl-2-(methylthio)pyrido[2,3-d]pyrimidin-7(8H)-ylidene]- (9CI) (CA INDEX NAME)

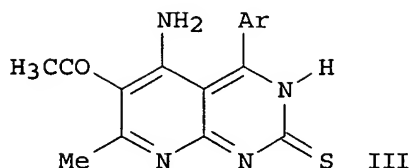


IC ICM C07D471-04
 ICS A61K031-519; A61P035-00; C07D471-04; C07D239-00; C07D221-00
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1
 IT 185040-33-9P, 4-Ethylamino-2-methylsulfanylpurimidine-5-carboxylic acid ethyl ester 185040-34-0P, 4-Ethylamino-2-methylsulfanylpurimidin-5-ylmethanol 185040-35-1P, 4-Ethylamino-2-methylsulfanylpurimidine-5-carboxaldehyde 397862-44-1P, 6-(3,5-Dimethoxyphenyl)-8-ethyl-2-methylsulfanyl-8H-pyrido[2,3-d]pyrimidin-7-one 397862-45-2P 398517-67-4P 398517-68-5P
 (intermediate; preparation of pyrido[2,3-d]pyrimidine-7-ones as antiangiogenic agents)

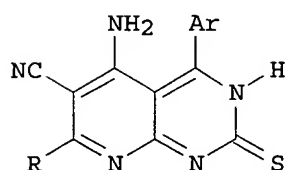
L36 ANSWER 15 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:75018 HCAPLUS
 DOCUMENT NUMBER: 137:310879
 TITLE: Synthesis and characterization of some new pyrimidine derivatives
 AUTHOR(S): Abd El-Ghafar, Nahed F.; Dawood, Nadia T.; Soliman, Fekria M. A.
 CORPORATE SOURCE: Chemistry Department, Faculty of Science, Girls' Branch, Al-Azhar University, Nasr City, Egypt
 SOURCE: Al-Azhar Bulletin of Science (2000), 11(2), 147-154
 CODEN: ABSCE7; ISSN: 1110-2535
 PUBLISHER: Al-Azhar University, Faculty of Science
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:310879
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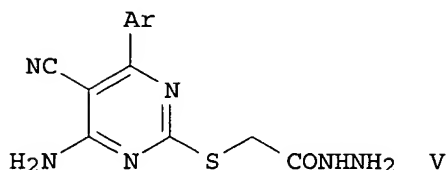
II



III



IV



V

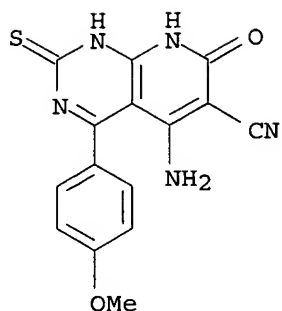
AB The reaction of 4-amino-6-(4-methoxyphenyl)-5-cyano-pyrimidin-2-thione (I) with active methylene compds. namely, Et cyanoacetate, malononitrile, ethylacetoacetate and/or acetylacetone afforded the pyrido[2,3-d] pyrimidines II [Ar = 4-MeOC6H4, R = CN, X = O, NH; Ar = 4-MeOC6H4, R = COMe, X = O] and III resp. Also, the reaction of I with malononitrile, formaldehyde, acetaldehyde and/or p-chlorocinnamonnitrile gave the corresponding pyrido-[2,3-d]-pyrimidinethione derivs. IV (R = H, Me, 4-ClC6H4). The reaction of I with carbon disulfide and/or Ph isothiocyanate yielded the corresponding pyrimido[4,5-d]pyrimidine derivs. The reaction of I with Et chloroacetate gave the corresponding 2-(ethoxycarbonylmercaptomethyl)pyrimidine V. The reactivity of V towards acetic anhydride, hydrazine hydrate, ethylene diamine, acetic anhydride-pyridine mixture and/or phenylisothiocyanate was also studied. Structural assignments of the new products were based on elemental anal., IR, 1H-NMR and mass spectra. Preliminary screening of the products for antimicrobial activity was reported.

IT 470483-94-4P 470483-97-7P 470483-99-9P

(preparation and bactericidal activity of pyridopyrimidines, pyridopyrimidinethiones, pyrimidopyrimidines and (ethoxycarbonylmercaptomethyl) pyrimidines)

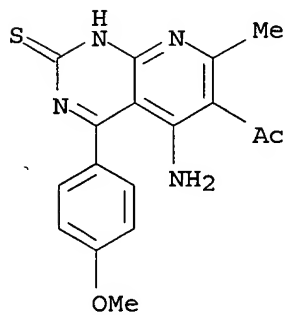
RN 470483-94-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 5-amino-1,2,3,7-tetrahydro-4-(4-methoxyphenyl)-7-oxo-2-thioxo- (9CI) (CA INDEX NAME)



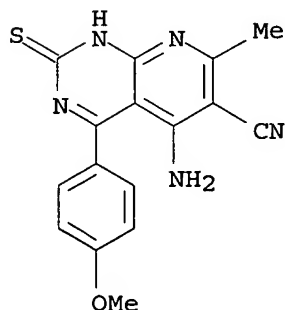
RN 470483-97-7 HCAPLUS

CN Ethanone, 1-[5-amino-1,2-dihydro-4-(4-methoxyphenyl)-7-methyl-2-thioxopyrido[2,3-d]pyrimidin-6-yl]- (9CI) (CA INDEX NAME)



RN 470483-99-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 5-amino-1,2-dihydro-4-(4-methoxyphenyl)-7-methyl-2-thioxo- (9CI) (CA INDEX NAME)

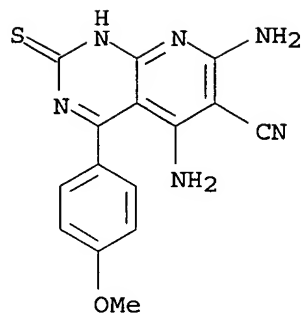


IT 470483-95-5P 470483-96-6P 470483-98-8P
470484-00-5P

(preparation and bactericidal activity of pyridopyrimidines, pyridopyrimidinethiones, pyrimidopyrimidines and (ethoxycarbonylmercaptomethyl) pyrimidines)

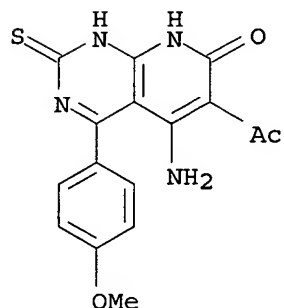
RN 470483-95-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 5,7-diamino-1,2-dihydro-4-(4-methoxyphenyl)-2-thioxo- (9CI) (CA INDEX NAME)



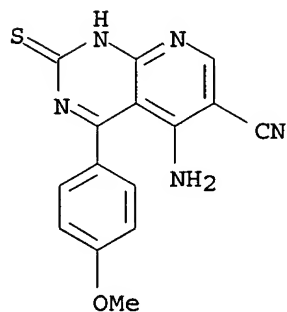
RN 470483-96-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(1H)-one, 6-acetyl-5-amino-2,3-dihydro-4-(4-methoxyphenyl)-2-thioxo- (9CI) (CA INDEX NAME)



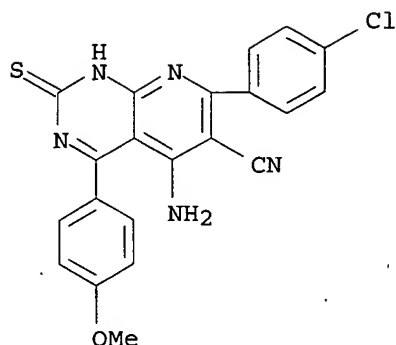
RN 470483-98-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 5-amino-1,2-dihydro-4-(4-methoxyphenyl)-2-thioxo- (9CI) (CA INDEX NAME)



RN 470484-00-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 5-amino-7-(4-chlorophenyl)-1,2-dihydro-4-(4-methoxyphenyl)-2-thioxo- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 10

IT 470483-94-4P 470483-97-7P 470483-99-9P

470484-01-6P 470484-04-9P 470484-05-0P 470484-07-2P

470484-08-3P 470484-09-4P

(preparation and bactericidal activity of pyridopyrimidines, pyridopyrimidinethiones, pyrimidopyrimidines and (ethoxycarbonylmercaptomethyl) pyrimidines)

IT 470483-95-5P 470483-96-6P 470483-98-8P

470484-00-5P 470484-06-1P 470484-10-7P

(preparation and bactericidal activity of pyridopyrimidines, pyridopyrimidinethiones, pyrimidopyrimidines and (ethoxycarbonylmercaptomethyl) pyrimidines)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 16 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:819452 HCAPLUS

DOCUMENT NUMBER: 137:125103

TITLE: Reaction of benzoyl acetonitrile with acetoacetanilides: synthesis of some pyrazole, pyrimidine, pyrazolo[3,4-b]pyridine and pyrido[2,3-d]pyrimidine derivatives

AUTHOR(S): Wardakhan, Wagnat W.; Agami, Samia M.

CORPORATE SOURCE: National Organization for Research and Drug Control, Cairo, Egypt

SOURCE: Egyptian Journal of Chemistry (2001), 44(4-6), 315-333

CODEN: EGJCA3; ISSN: 0449-2285

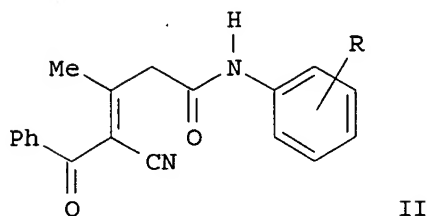
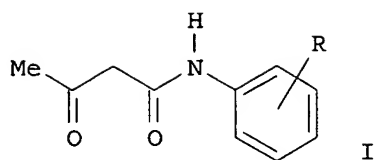
PUBLISHER: National Information and Documentation Centre

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:125103

GI



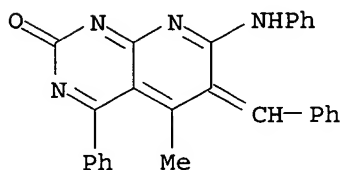
AB The reaction of benzoyl acetonitrile with acetoacetanilides I (R = H, 2-Me, 4-Me) gave the resp. acyclic products II. The reaction of II (R = H) with hydrazines, urea, thiourea, aromatic aldehydes and malononitrile gives pyrazole, pyrimidine, pyrazolo [3,4-d]pyridine and pyrido[2,3-d]pyrimidine and pyridine derivs.

IT 444346-43-4P 444346-44-5P

(preparation, bactericidal and antifungal activity of pyrazoles, pyrimidines, pyrazolo[3,4-b]pyridines and pyrido[2,3-d]pyrimidines via reaction of benzoyl acetonitrile with acetoacetanilides)

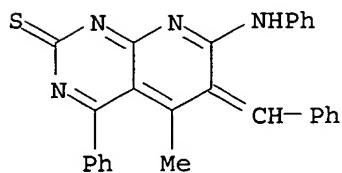
RN 444346-43-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-2(6H)-one, 5-methyl-4-phenyl-7-(phenylamino)-6-(phenylmethylene)- (9CI) (CA INDEX NAME)



RN 444346-44-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2(6H)-thione, 5-methyl-4-phenyl-7-(phenylamino)-6-(phenylmethylene)- (9CI) (CA INDEX NAME)



CC 28-2 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 10

- ST acetoacetanilide benzoyl acetonitrile condensation;
 acetanilidocrotonitrile benzoyl prepn cyclization hydrazine;
 pyrazole prepn **fungicide** bactericide;
 benzoylacetanilidocrotonitrile prepn cyclization urea; pyrimidine
 pyrido prepn **fungicide** antibacterial agent; pyridine
 pyrazolo prepn **fungicide** bactericide
- IT Antibacterial agents
 Bacillus cereus
 Condensation reaction
 Escherichia coli
Fungicides
 Klebsiella pneumoniae
 Mycosis
 Staphylococcus aureus
 (preparation, bactericidal and antifungal activity of pyrazoles,
 pyrimidines, pyrazolo[3,4-b]pyridines and pyrido[2,3-
 d]pyrimidines via reaction of benzoyl acetonitrile with
 acetoacetanilides)
- IT 444346-36-5P 444346-37-6P 444346-38-7P 444346-39-8P
 444346-40-1P 444346-41-2P 444346-42-3P **444346-43-4P**
444346-44-5P 444346-46-7P 444346-47-8P 444346-49-0P
 444346-50-3P 444346-52-5P 444346-53-6P 444346-54-7P
 444346-56-9P 444346-57-0P
 (preparation, bactericidal and antifungal activity of pyrazoles,
 pyrimidines, pyrazolo[3,4-b]pyridines and pyrido[2,3-
 d]pyrimidines via reaction of benzoyl acetonitrile with
 acetoacetanilides)

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L36 ANSWER 17 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:565040 HCAPLUS

DOCUMENT NUMBER: 135:152817

TITLE: Preparation of pyrido[2,3-d]pyrimidine-2,7-
 diamine kinase inhibitors for treatment of
 proliferative disorders

INVENTOR(S): Booth, Richard John; Dobrusin, Ellen Myra;
 Josyula, Vara Prasad Venkata Nagendra;
 McNamara, Dennis Joseph; Toogood, Peter
 Laurence

PATENT ASSIGNEE(S): Warner-Lambert Company, USA

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

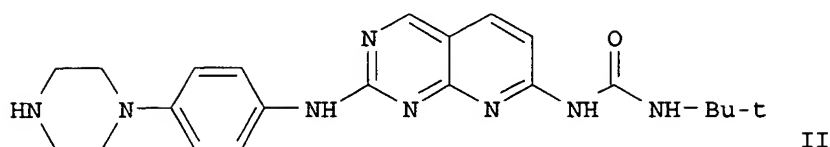
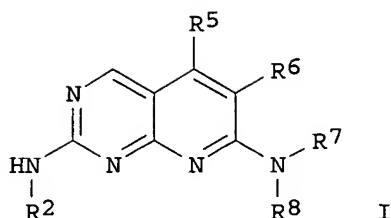
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001055147	A1	20010802	WO 2001-IB69	2001 0123

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 CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,

KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
 MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
 TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
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 CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR,
 NE, SN, TD, TG

CA 2397961	AA	20010802	CA 2001-2397961	
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EP 1254137	A1	20021106	EP 2001-900591	
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BR 2001007751	A	20021112	BR 2001-7751	
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ZA 2002005879	A	20030929	ZA 2002-5879	
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NO 2002003527	A	20020910	NO 2002-3527	
				2002 0724
US 2003073668	A1	20030417	US 2002-182178	
				2002 0724
US 7053070 PRIORITY APPLN. INFO.:	B2	20060530	US 2000-178261P	P
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OTHER SOURCE(S): GI	MARPAT 135:152817			



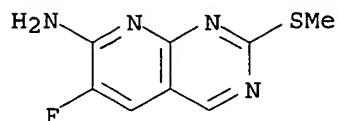
AB Title compds. (I) [wherein R₂, R₇, R₁₃, R₁₄, and R₁₅ = independently H, or (un)substituted alkyl, alkenyl, alkynyl, or (CH₂)_nR₁₂; R₅ = halo, CN, NO₂, R₉, NR₉R₁₀, or OR₉; R₆ = halo, CN, NO₂, R₉, NR₉R₁₀, OR₉, CO₂R₉, COR₉, CONR₉R₁₀, NR₉COR₁₀, or (un)substituted alkenyl or alkynyl; R₈ = CO₂R₁₃, COR₁₃, CONR₁₃R₁₄, CSNR₁₃R₁₄, C(NR₁₃)NR₁₄R₁₅, SO₃R₁₃, SO₂R₁₃, SO₂NR₁₃R₁₄, PO₃R₁₃R₁₄, POR₁₃R₁₄, or PO(NR₁₃R₁₄)₂; R₉ and R₁₀ = independently H or (un)substituted alkyl; R₁₁ = heteroaryl or heterocyclic group; R₁₂ = cycloalkyl, heterocyclic, or (hetero)aryl group; n = 0-3; and pharmaceutically acceptable salts, esters, amides, and prodrugs thereof] were prepared and formulated as cyclin dependent kinase (cdk) and growth factor-mediated tyrosine kinase inhibitors. For example, the 2-methylsulfinyl group of 2-methanesulfinylpyrido[2,3-d]pyrimidin-7-ylamine was displaced by 4-(4-aminophenyl)piperazine-1-carboxylic acid tert-Bu ester (multi-step preparation of starting materials given) by refluxing in DMSO (36%). The pyrido[2,3-d]pyrimidin-7-amine was converted to the urea by reaction with tert-Bu isocyanate (67.9%) and the piperazine deprotected using HCl/dioxane (93.4%) to afford II·2.1HCl. The latter inhibited the cyclin dependent kinases cdk1/B, cdk2/A, cdk2/E, and cdk4D with IC₅₀ values of 0.219 μM, 0.060 μM, 0.130 μM, and 0.006 μM, resp. In addition, II·2.1HCl inhibited the growth factor receptor tyrosine kinases PDGF-β and FGF-1 by 94.4% and 93.7%, resp., at 50 μM. I are useful for treating cell proliferative disorders, such as cancer and restenosis (no data).

IT 352328-66-6P 352328-68-8P 352328-69-9P
 352328-70-2P 352328-89-3P 352328-90-6P
 352328-92-8P 352328-93-9P 352328-95-1P
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 352329-16-9P 352329-17-0P 352329-18-1P
 352329-19-2P 352329-28-3P 352329-29-4P
 352329-30-7P 352329-32-9P 352329-33-0P
 (intermediate; preparation of pyrido[2,3-d]pyrimidine-2,7-diamines kinase inhibitors by cyclization of 3-[2-(methylsulfinyl)-4-aminopyrimidin-5-yl]acrylates or [2,4-diaminopyrimidine-5-yl]ketones)

RN 352328-66-6 HCAPLUS

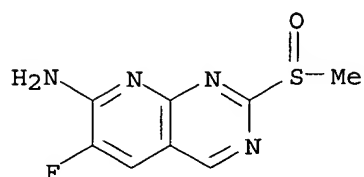
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-fluoro-2-(methylthio)- (9CI)

(CA INDEX NAME)



RN 352328-68-8 HCAPLUS

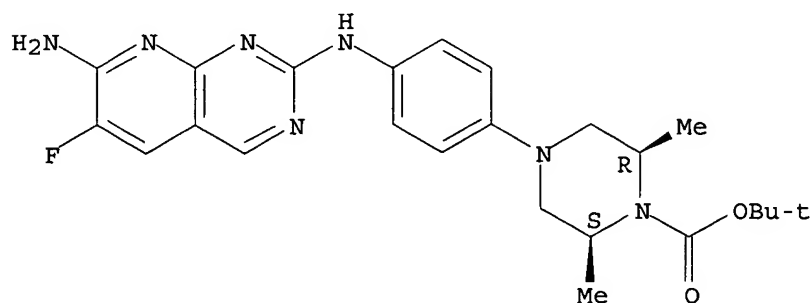
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-fluoro-2-(methylsulfinyl)- (9CI)
(CA INDEX NAME)



RN 352328-69-9 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[(7-amino-6-fluoropyrido[2,3-d]pyrimidin-2-yl)amino]phenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

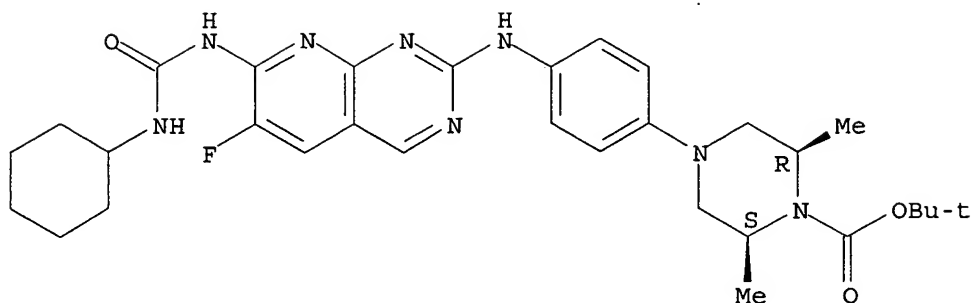
Relative stereochemistry.



RN 352328-70-2 HCAPLUS

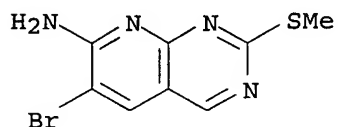
CN 1-Piperazinecarboxylic acid, 4-[4-[[7-[(cyclohexylamino)carbonyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



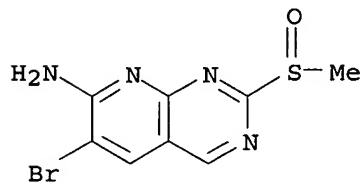
RN 352328-89-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-bromo-2-(methylthio)- (9CI) (CA INDEX NAME)



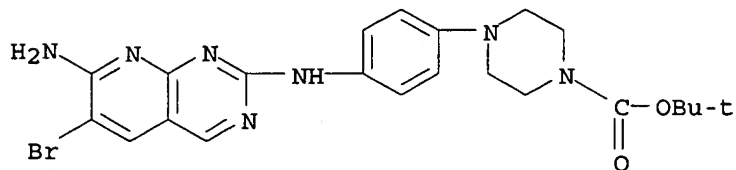
RN 352328-90-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-bromo-2-(methylsulfinyl)- (9CI) (CA INDEX NAME)



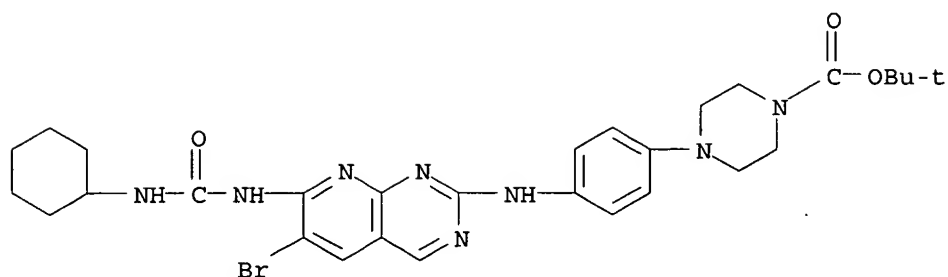
RN 352328-92-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[(7-amino-6-bromopyrido[2,3-d]pyrimidin-2-yl)amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



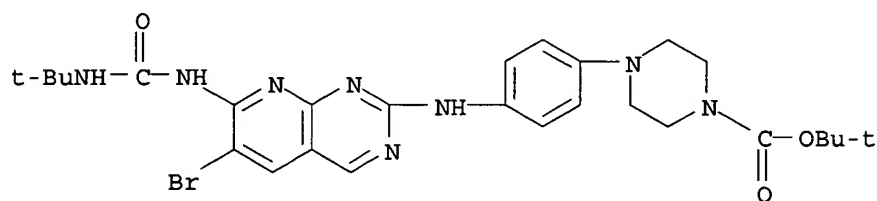
RN 352328-93-9 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[6-bromo-7-[(cyclohexylamino)carbonyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



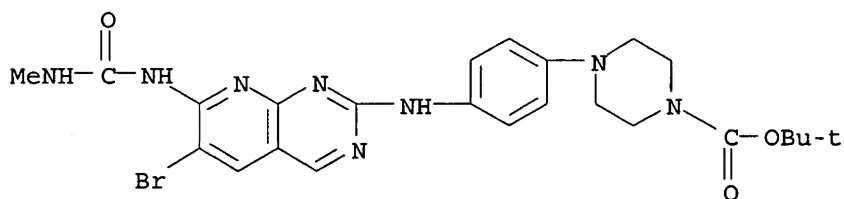
RN 352328-95-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[6-bromo-7-[[[(1,1-dimethylethyl)amino]carbonyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 352328-97-3 HCAPLUS

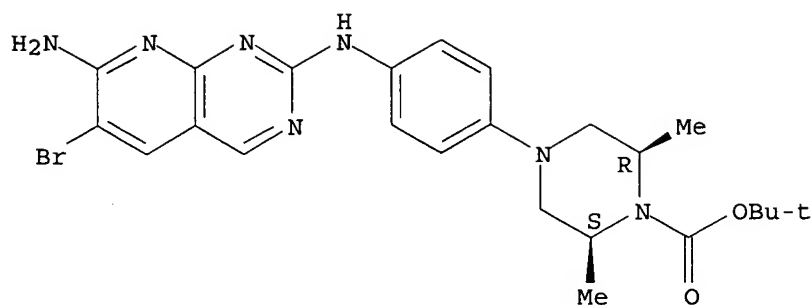
CN 1-Piperazinecarboxylic acid, 4-[4-[[6-bromo-7-[[[(methylethyl)amino]carbonyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 352328-99-5 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[(7-amino-6-bromopyrido[2,3-d]pyrimidin-2-yl)amino]phenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

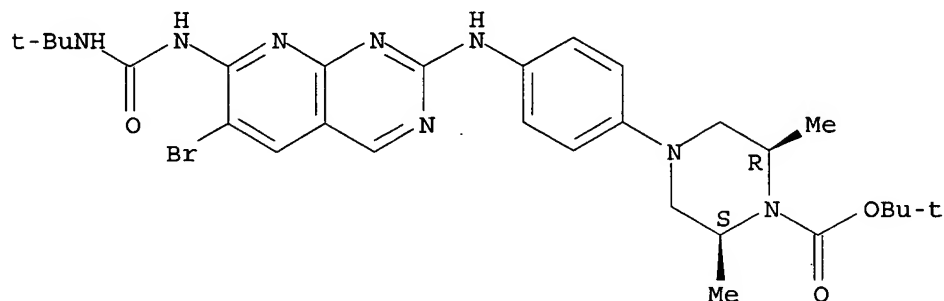
Relative stereochemistry.



RN 352329-00-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[6-bromo-7-[[[(1,1-dimethylethyl)amino]carbonyl]amino]pyrido[2,3-d]pyrimidin-2-yl]aminolphenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

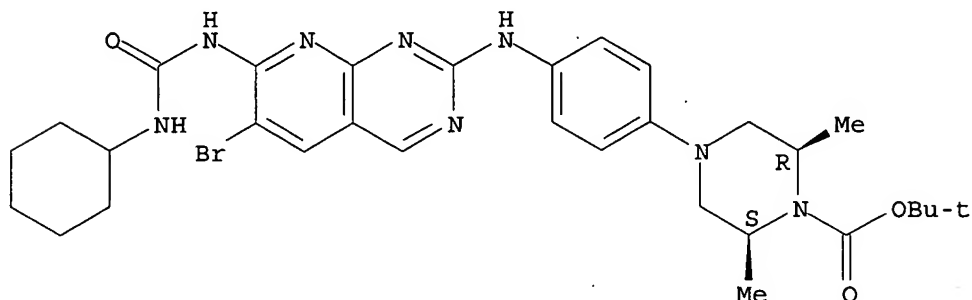
Relative stereochemistry.



RN 352329-02-3 HCAPLUS

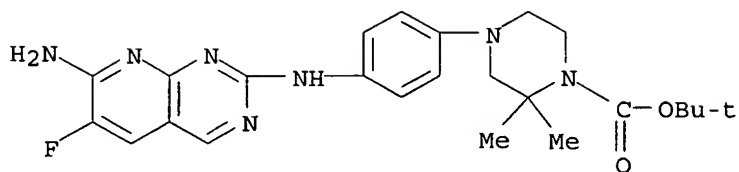
CN 1-Piperazinecarboxylic acid, 4-[4-[[6-bromo-7-[[[(cyclohexylamino)carbonyl]amino]pyrido[2,3-d]pyrimidin-2-yl]aminolphenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



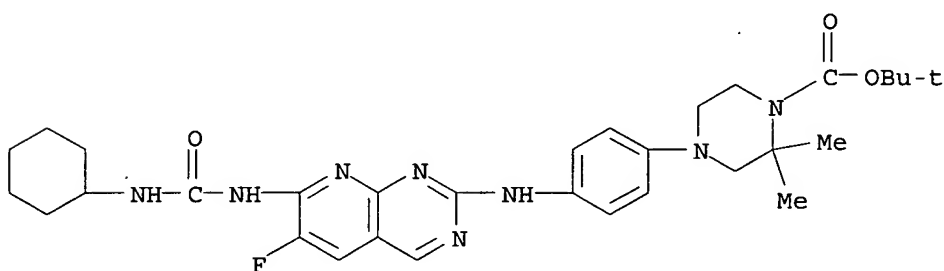
RN 352329-05-6 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[7-amino-6-fluoropyrido[2,3-d]pyrimidin-2-yl]aminolphenyl]-2,2-dimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



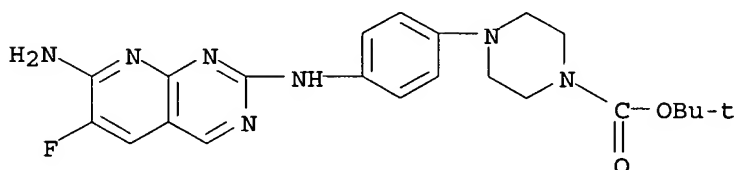
RN 352329-07-8 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[7-
[[cyclohexylamino)carbonyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-
2-yl]amino]phenyl]-2,2-dimethyl-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)



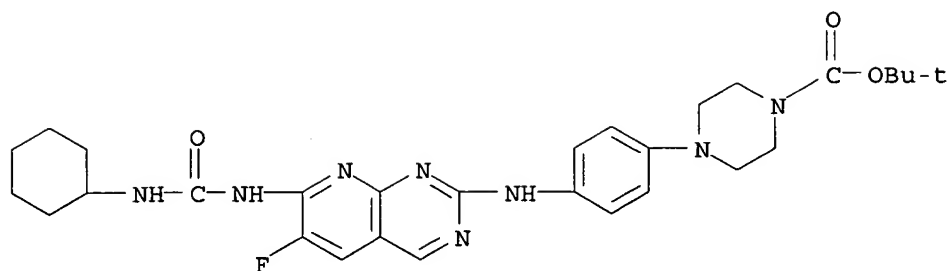
RN 352329-09-0 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[[7-amino-6-fluoropyrido[2,3-
d]pyrimidin-2-yl)amino]phenyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)



RN 352329-10-3 HCAPLUS

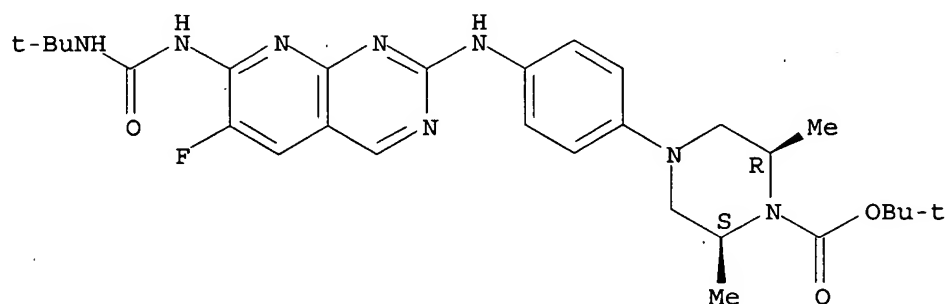
CN 1-Piperazinecarboxylic acid, 4-[4-[[7-
[[cyclohexylamino)carbonyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-
2-yl]amino]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX
NAME)



RN 352329-11-4 HCAPLUS

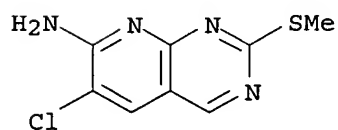
CN 1-Piperazinecarboxylic acid, 4-[4-[[7-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



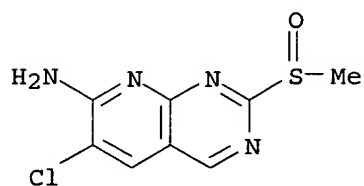
RN 352329-16-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-chloro-2-(methylthio)- (9CI) (CA INDEX NAME)



RN 352329-17-0 HCAPLUS

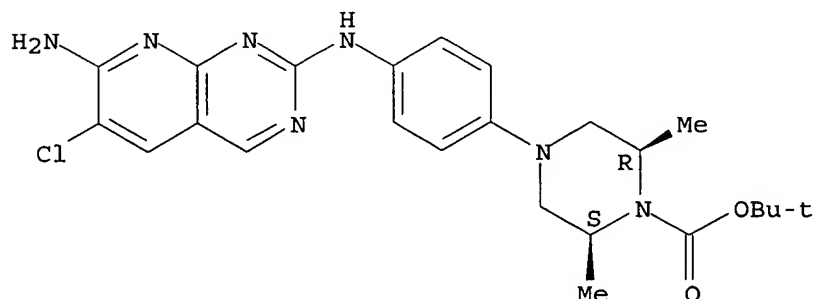
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-chloro-2-(methylsulfinyl)- (9CI) (CA INDEX NAME)



RN 352329-18-1 HCAPLUS

CN 1-Piperazinecarboxylic acid, 4-[4-[(7-amino-6-chloropyrido[2,3-d]pyrimidin-2-yl)amino]phenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

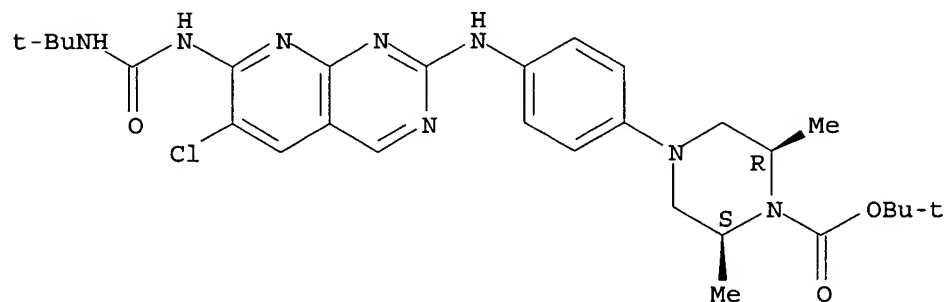
Relative stereochemistry.



RN 352329-19-2 HCAPLUS

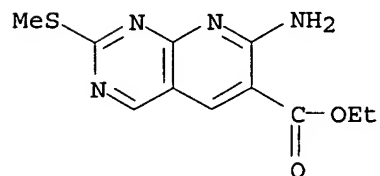
CN 1-Piperazinecarboxylic acid, 4-[4-[[6-chloro-7-[[[(1,1-dimethylethyl)amino]carbonyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]-2,6-dimethyl-, 1,1-dimethylethyl ester, (2R,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



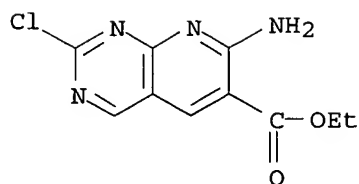
RN 352329-28-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-2-(methylthio)-, ethyl ester (9CI) (CA INDEX NAME)



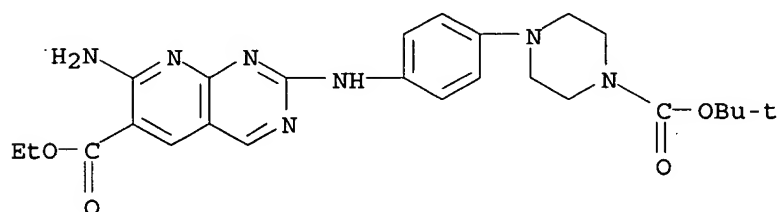
RN 352329-29-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-2-chloro-, ethyl ester (9CI) (CA INDEX NAME)



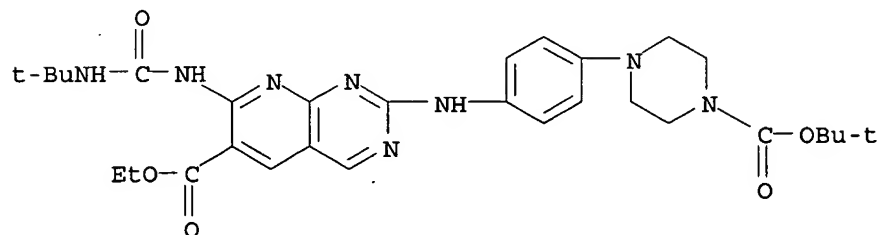
RN 352329-30-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-2-[[4-[4-[(1,1-dimethylethoxy)carbonyl]-1-piperazinyl]phenyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



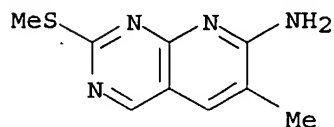
RN 352329-32-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 2-[[4-[4-[(1,1-dimethylethoxy)carbonyl]-1-piperazinyl]phenyl]amino]-7-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 352329-33-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-methyl-2-(methylthio)- (9CI) (CA INDEX NAME)



IT 352326-95-5P 352327-10-7P 352327-11-8P
 352327-12-9P 352327-14-1P 352327-15-2P
 352327-24-3P 352327-25-4P 352327-27-6P
 352327-30-1P 352327-44-7P 352327-45-8P

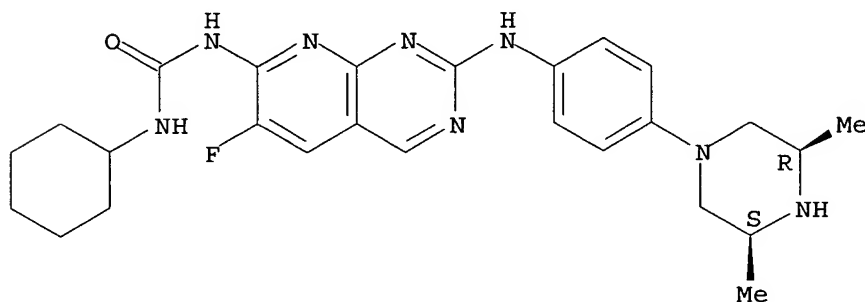
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 352327-53-8P 352327-55-0P 352327-57-2P
 352327-61-8P 352327-64-1P 352327-71-0P
 352327-75-4P 352327-80-1P 352327-84-5P
 352327-90-3P 352327-94-7P 352328-22-4P
 352328-23-5P 352328-24-6P 352328-25-7P
 352328-29-1P 352328-30-4P 352328-34-8P
 352328-35-9P 352328-36-0P 352328-37-1P
 352328-38-2P 352328-39-3P 352359-60-5P
 352359-61-6P 352359-62-7P 352359-63-8P
 352359-64-9P 352359-65-0P 352359-66-1P

(preparation of pyrido[2,3-d]pyrimidine-2,7-diamines kinase inhibitors by cyclization of 3-[2-(methylsulfinyl)-4-aminopyrimidin-5-yl]acrylates or [2,4-diaminopyrimidine-5-yl]ketones)

RN 352326-95-5 HCAPLUS

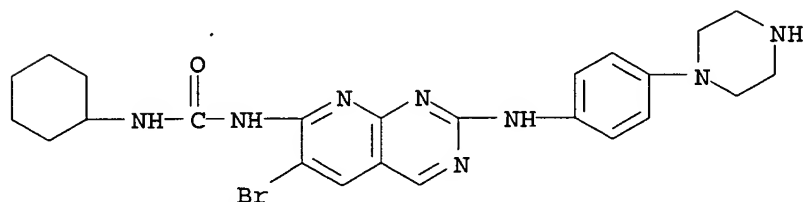
CN Urea, N-cyclohexyl-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-7-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 352327-10-7 HCAPLUS

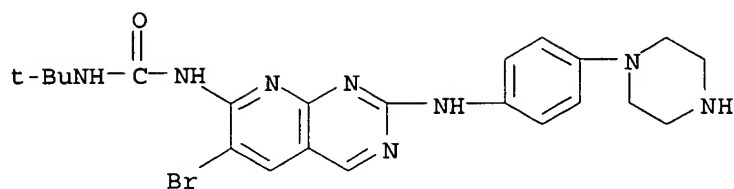
CN Urea, N-[6-bromo-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-cyclohexyl-, hydrochloride (6:11) (9CI) (CA INDEX NAME)



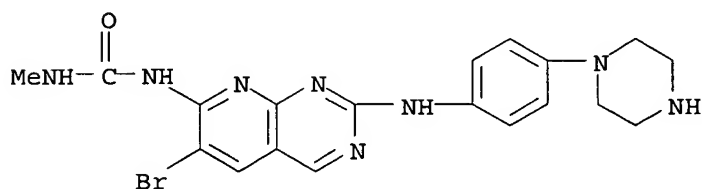
●11/6 HCl

RN 352327-11-8 HCAPLUS

CN Urea, N-[6-bromo-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



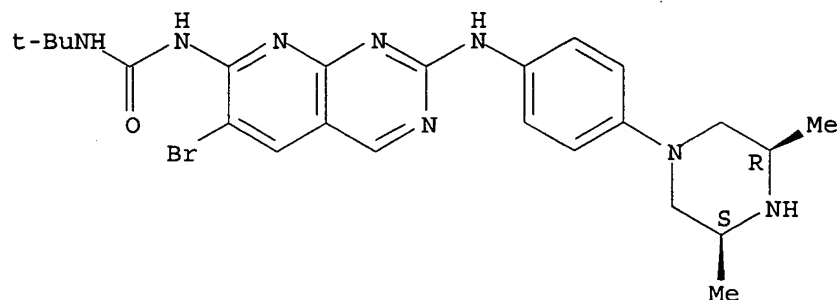
RN 352327-12-9 HCAPLUS
 CN Urea, N-[6-bromo-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-methyl-, trihydrochloride (9CI) (CA INDEX NAME)



● 3 HCl

RN 352327-14-1 HCAPLUS
 CN Urea, N-[6-bromo-2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-, hydrochloride (20:51), rel- (9CI) (CA INDEX NAME)

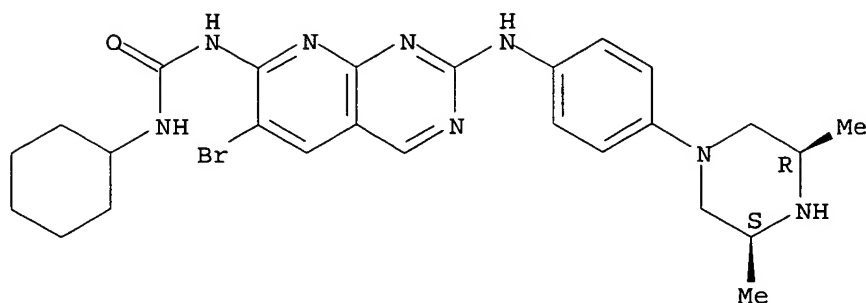
Relative stereochemistry.



● 51/20 HCl

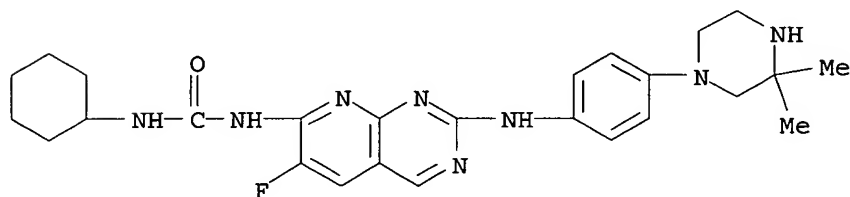
RN 352327-15-2 HCAPLUS
 CN Urea, N-[6-bromo-2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-cyclohexyl-, hydrochloride (4:11), rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

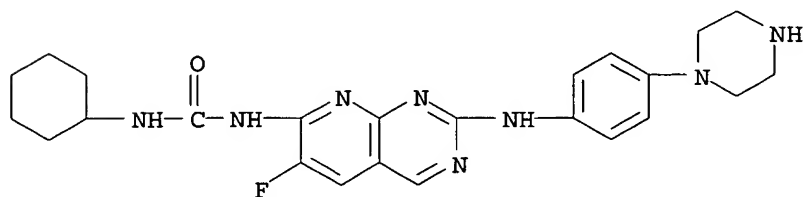


●11/4 HCl

RN 352327-24-3 HCAPLUS
CN Urea, N-cyclohexyl-N'-[2-[[4-(3,3-dimethyl-1-piperazinyl)phenyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



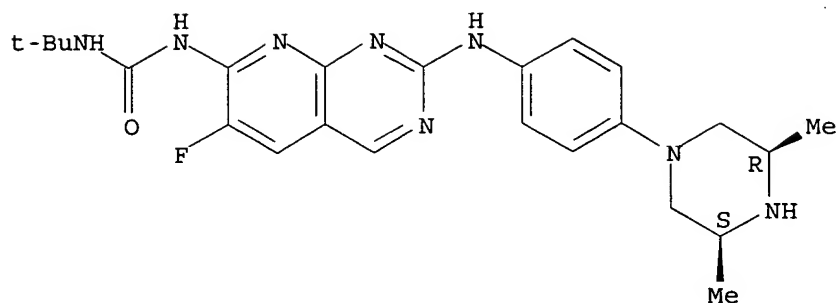
RN 352327-25-4 HCAPLUS
CN Urea, N-cyclohexyl-N'-[6-fluoro-2-[[4-(1,1-dimethylpiperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-, hydrochloride (4:11) (9CI) (CA INDEX NAME)



●11/4 HCl

RN 352327-27-6 HCAPLUS
CN Urea, N-(1,1-dimethylethyl)-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-7-yl]-, rel- (9CI) (CA INDEX NAME)

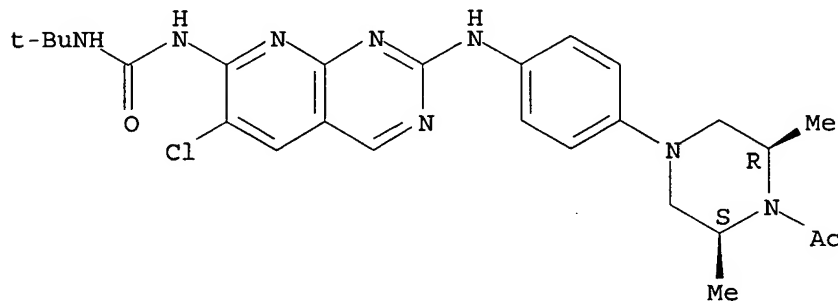
Relative stereochemistry.



RN 352327-30-1 HCAPLUS

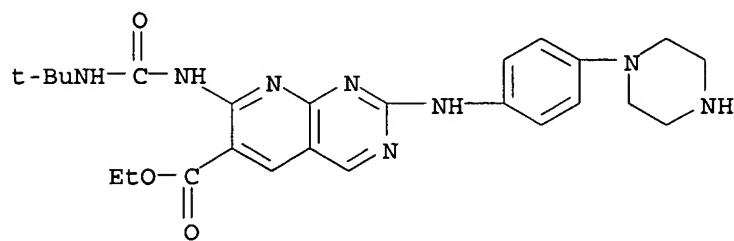
CN Piperazine, 1-acetyl-4-[4-[[6-chloro-7-[[[(1,1-dimethylethyl)amino]carbonyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]-2,6-dimethyl-, (2R,6S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



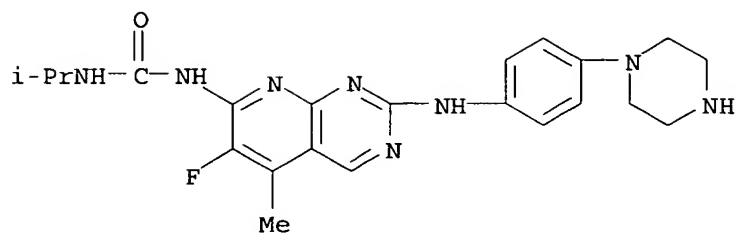
RN 352327-44-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-2-[[4-(1-piperazinyl)phenyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 352327-45-8 HCAPLUS

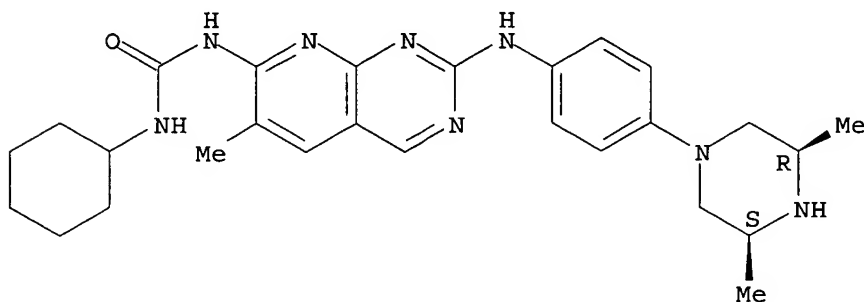
CN Urea, N-[6-fluoro-5-methyl-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 352327-49-2 HCAPLUS

CN Urea, N-cyclohexyl-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-methylpyrido[2,3-d]pyrimidin-7-yl]-, hydrochloride (2:5), rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

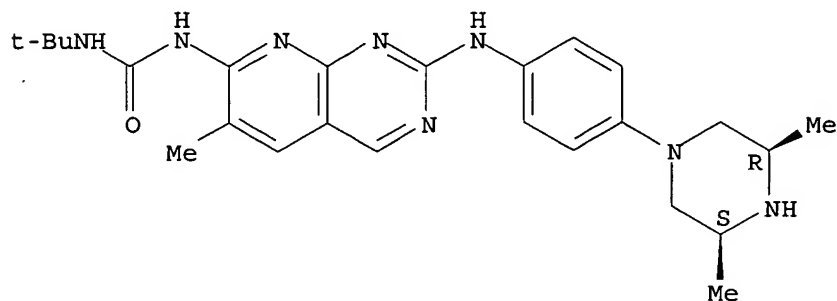


●5/2 HCl

RN 352327-50-5 HCAPLUS

CN Urea, N-(1,1-dimethylethyl)-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-methylpyrido[2,3-d]pyrimidin-7-yl]-, hydrochloride (5:12), rel- (9CI) (CA INDEX NAME)

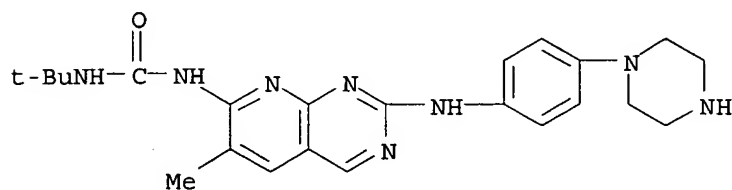
Relative stereochemistry.



●12/5 HCl

RN 352327-51-6 HCAPLUS

CN Urea, N-(1,1-dimethylethyl)-N'-[6-methyl-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-, pentahydrochloride (9CI) (CA INDEX NAME)

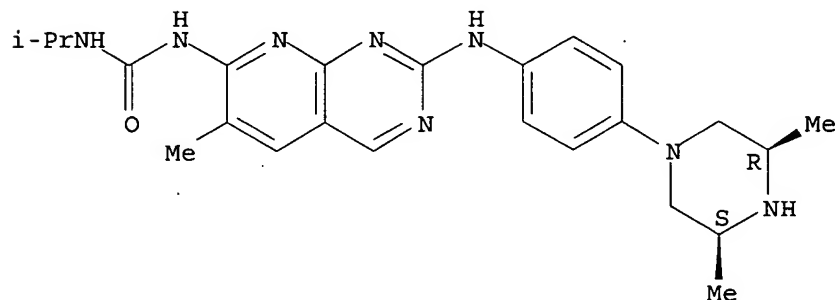


● 5 HCl

RN 352327-53-8 HCAPLUS

CN Urea, N-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)-, trihydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

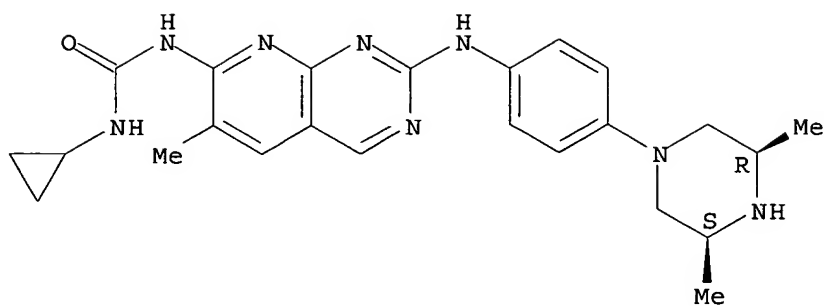


● 3 HCl

RN 352327-55-0 HCAPLUS

CN Urea, N-cyclopropyl-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-methylpyrido[2,3-d]pyrimidin-7-yl]-, hydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

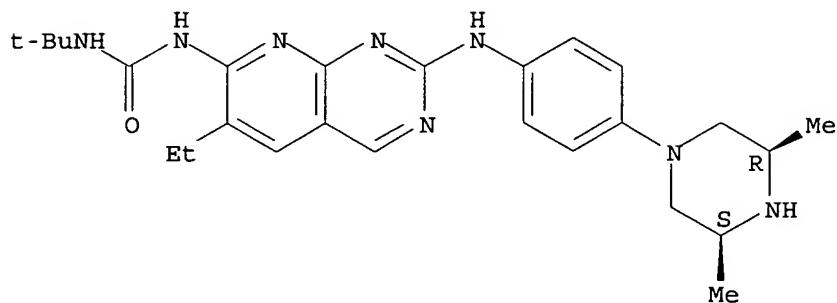


●x HCl

RN 352327-57-2 HCAPLUS

CN Urea, N-(1,1-dimethylethyl)-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-ethylpyrido[2,3-d]pyrimidin-7-yl]-, hydrochloride (2:5), rel- (9CI) (CA INDEX NAME)

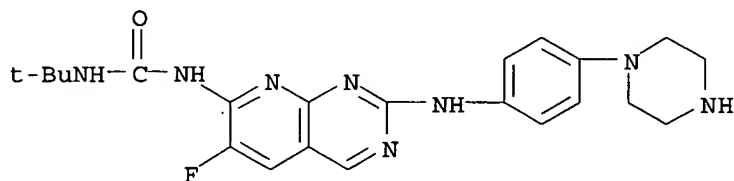
Relative stereochemistry.



●5/2 HCl

RN 352327-61-8 HCAPLUS

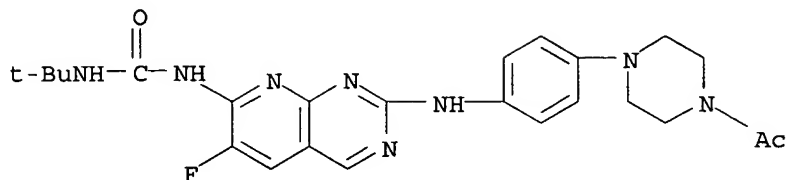
CN Urea, N-(1,1-dimethylethyl)-N'-[6-fluoro-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 352327-64-1 HCAPLUS

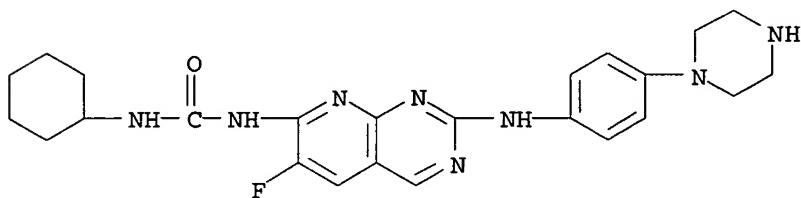
CN Piperazine, 1-acetyl-4-[4-[[7-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-

2-yl]amino]phenyl] - (9CI) (CA INDEX NAME)



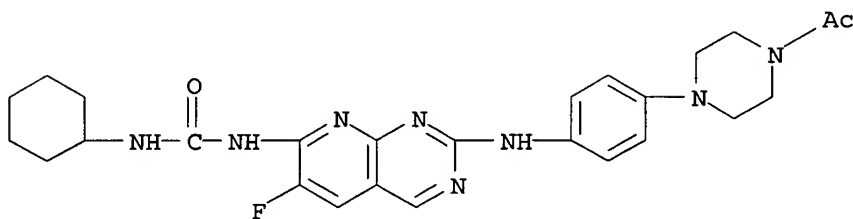
RN 352327-71-0 HCAPLUS

CN Urea, N-cyclohexyl-N'-[6-fluoro-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl] - (9CI) (CA INDEX NAME)



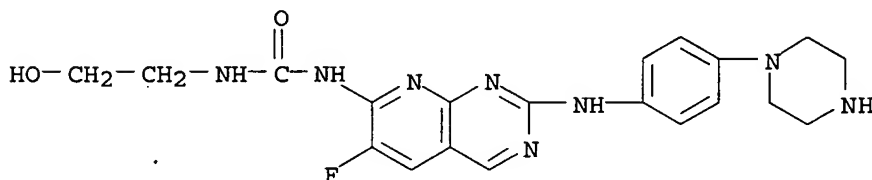
RN 352327-75-4 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[[7-[(cyclohexylamino)carbonyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-2-yl]amino]phenyl] - (9CI) (CA INDEX NAME)



RN 352327-80-1 HCAPLUS

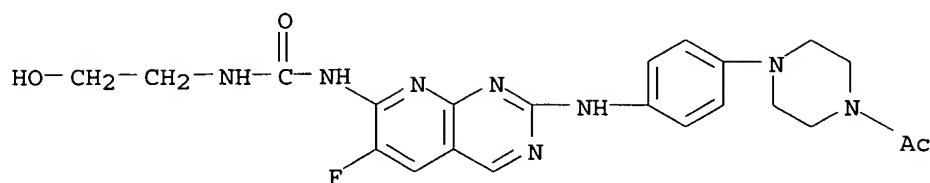
CN Urea, N-[6-fluoro-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 352327-84-5 HCAPLUS

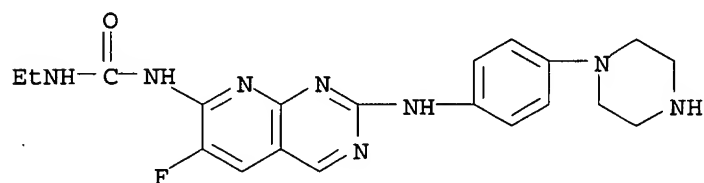
CN Piperazine, 1-acetyl-4-[4-[[6-fluoro-7-[[[(2-hydroxyethyl)amino]carbonyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]- (9CI) (CA INDEX NAME)

yl]amino]phenyl]- (9CI) (CA INDEX NAME)



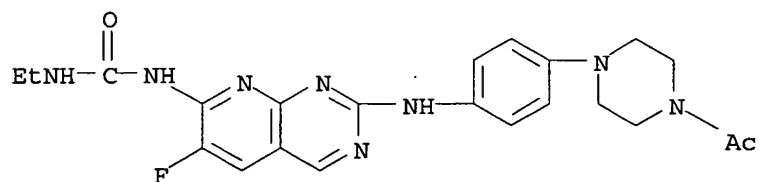
RN 352327-90-3 HCAPLUS

CN Urea, N-ethyl-N'-[6-fluoro-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



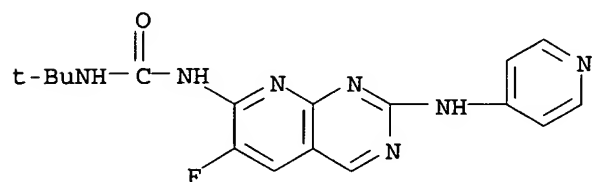
RN 352327-94-7 HCAPLUS

CN Piperazine, 1-acetyl-4-[4-[[7-[[[(ethylamino)carbonyl]amino]-6-fluoropyrido[2,3-d]pyrimidin-2-yl]amino]phenyl]- (9CI) (CA INDEX NAME)



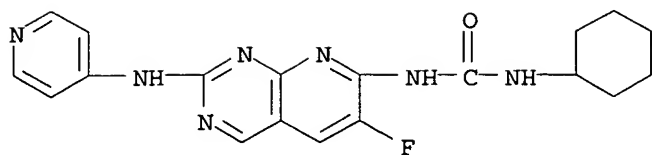
RN 352328-22-4 HCAPLUS

CN Urea, N-(1,1-dimethylethyl)-N'-[6-fluoro-2-(4-pyridinylamino)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



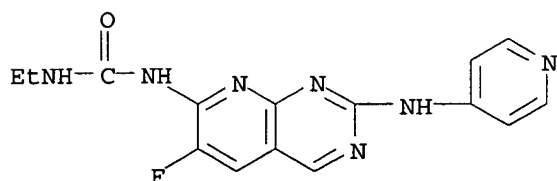
RN 352328-23-5 HCAPLUS

CN Urea, N-cyclohexyl-N'-[6-fluoro-2-(4-pyridinylamino)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



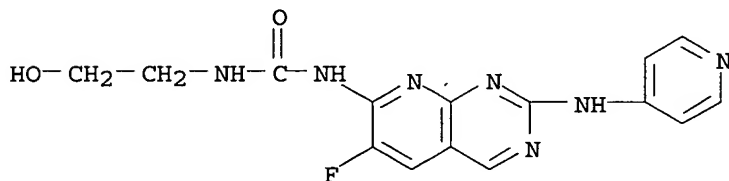
RN 352328-24-6 HCAPLUS

CN Urea, N-ethyl-N'-[6-fluoro-2-(4-pyridinylamino)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 352328-25-7 HCAPLUS

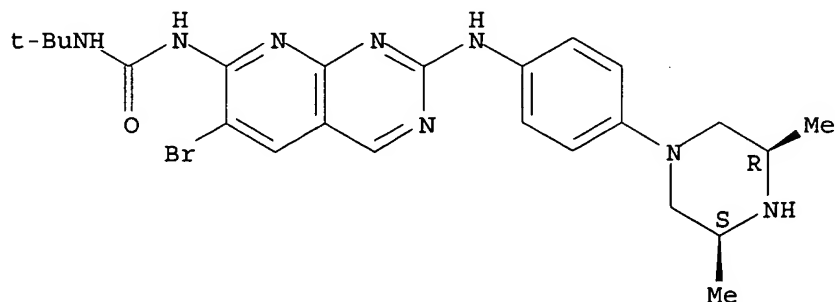
CN Urea, N-[6-fluoro-2-(4-pyridinylamino)pyrido[2,3-d]pyrimidin-7-yl]-N'-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 352328-29-1 HCAPLUS

CN Urea, N-[6-bromo-2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

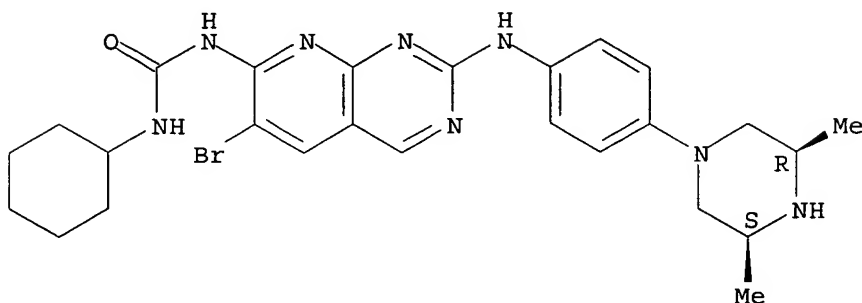


RN 352328-30-4 HCAPLUS

CN Urea, N-[6-bromo-2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-, rel- (9CI) (CA INDEX NAME)

cyclohexyl-, rel- (9CI) (CA INDEX NAME)

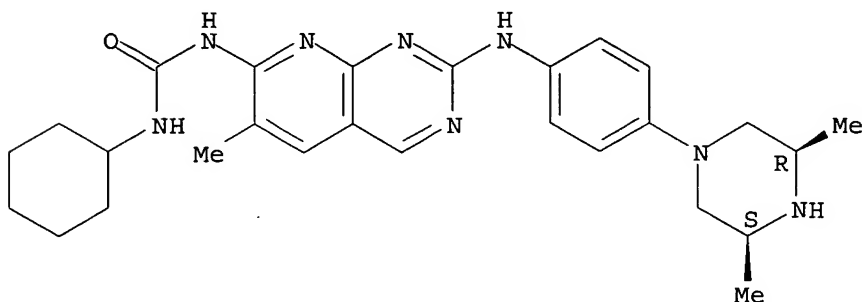
Relative stereochemistry.



RN 352328-34-8 HCAPLUS

CN Urea, N-cyclohexyl-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-methylpyrido[2,3-d]pyrimidin-7-yl]-, rel- (9CI) (CA INDEX NAME)

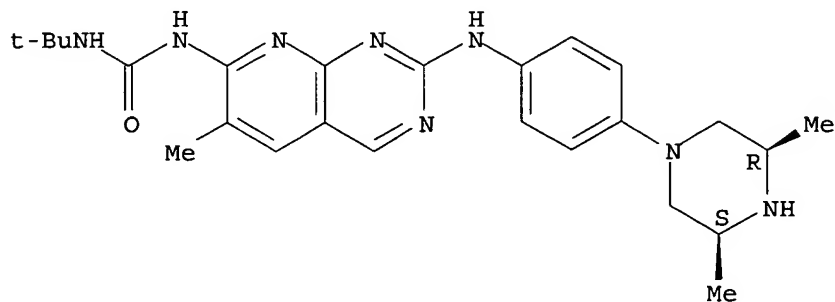
Relative stereochemistry.



RN 352328-35-9 HCAPLUS

CN Urea, N-(1,1-dimethylethyl)-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-methylpyrido[2,3-d]pyrimidin-7-yl]-, rel- (9CI) (CA INDEX NAME)

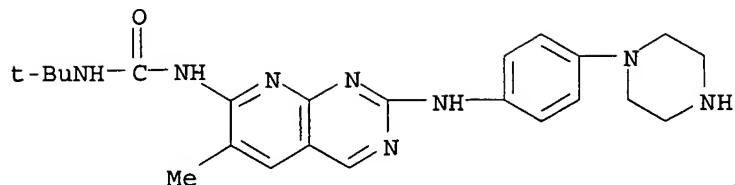
Relative stereochemistry.



RN 352328-36-0 HCAPLUS

CN Urea, N-(1,1-dimethylethyl)-N'-[6-methyl-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA

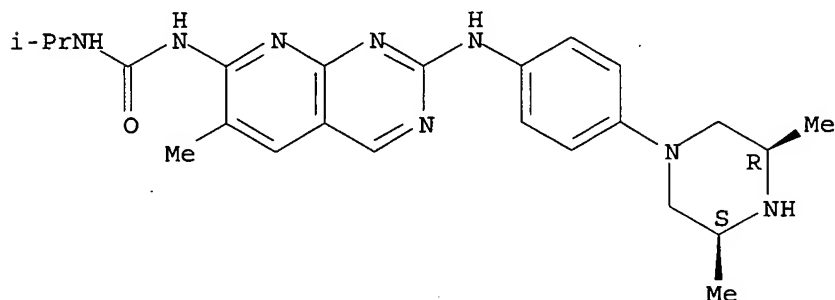
INDEX NAME)



RN 352328-37-1 HCAPLUS

CN Urea, N-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)-, rel- (9CI)
(CA INDEX NAME)

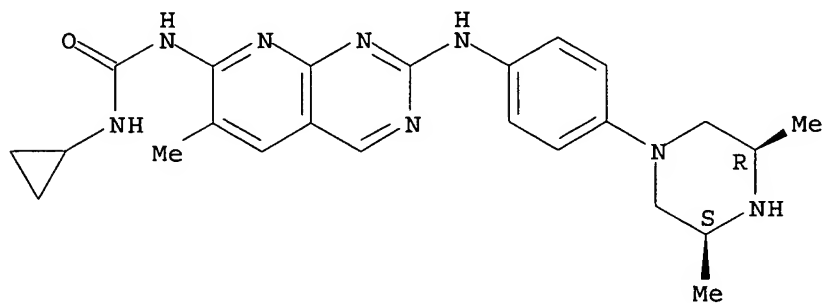
Relative stereochemistry.



RN 352328-38-2 HCAPLUS

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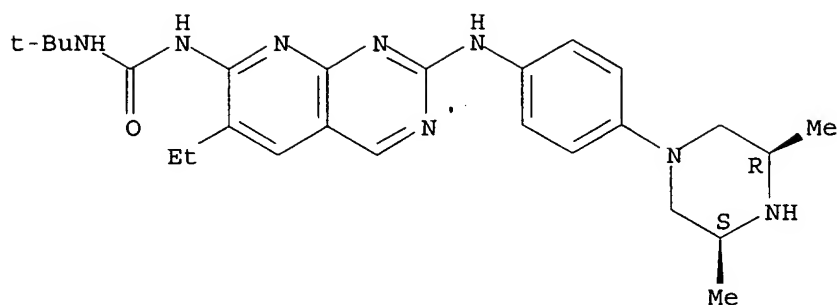
Relative stereochemistry.



RN 352328-39-3 HCAPLUS

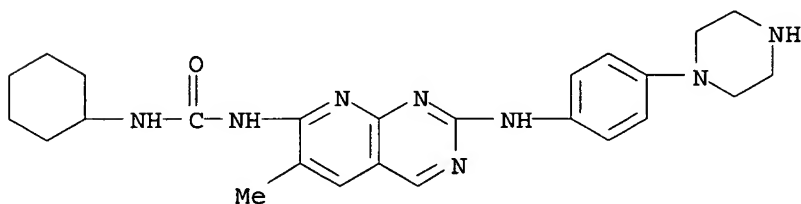
CN Urea, N-(1,1-dimethylethyl)-N'-[2-[[4-[(3R,5S)-3,5-dimethyl-1-piperazinyl]phenyl]amino]-6-ethylpyrido[2,3-d]pyrimidin-7-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



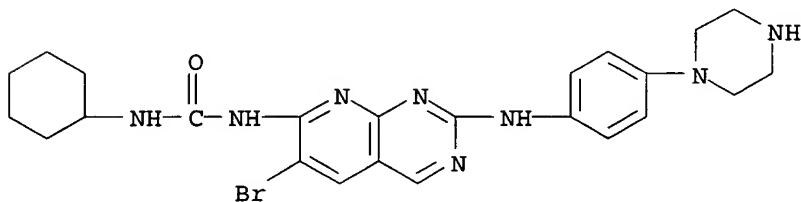
RN 352359-60-5 HCAPLUS

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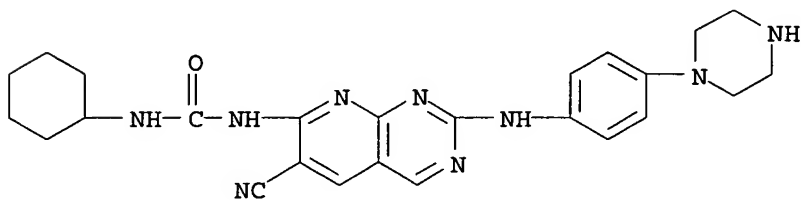
RN 352359-61-6 HCAPLUS

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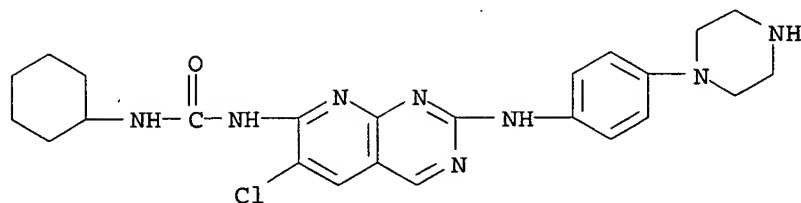
RN 352359-62-7 HCAPLUS

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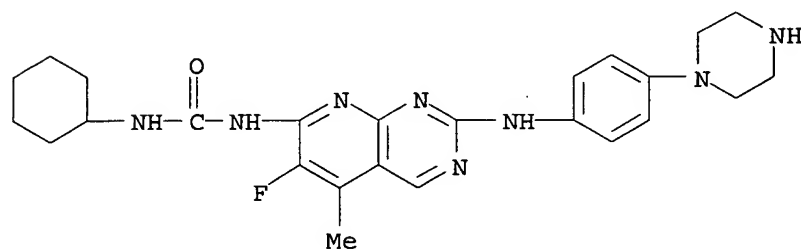
RN 352359-63-8 HCAPLUS

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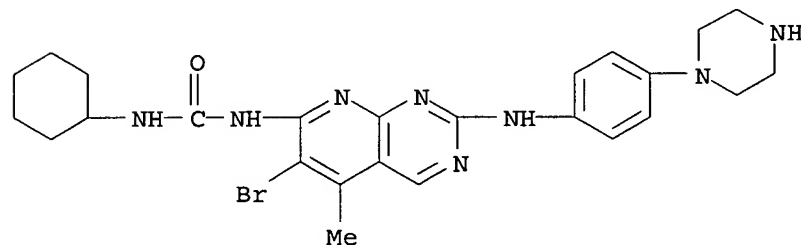
RN 352359-64-9 HCAPLUS

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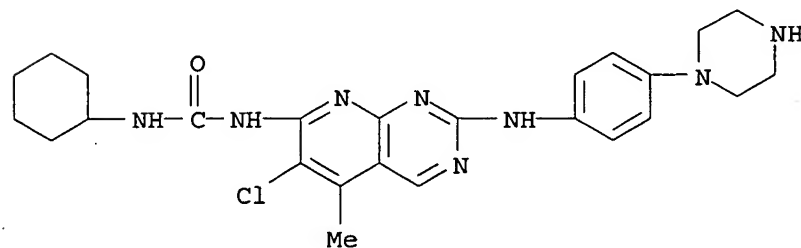
RN 352359-65-0 HCAPLUS

CN Urea, N-[6-bromo-5-methyl-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-cyclohexyl- (9CI) (CA INDEX NAME)



RN 352359-66-1 HCAPLUS

CN Urea, N-[6-chloro-5-methyl-2-[[4-(1-piperazinyl)phenyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-cyclohexyl- (9CI) (CA INDEX NAME)



IC ICM C07D471-04
ICS A61K031-305

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 63

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(intermediate; preparation of pyrido[2,3-d]pyrimidine-2,7-diamines
kinase inhibitors by cyclization of 3-[2-(methylsulfinyl)-4-
aminopyrimidin-5-yl]acrylates or [2,4-diaminopyrimidine-5-
yl]ketones)

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(preparation of pyrido[2,3-d]pyrimidine-2,7-diamines kinase inhibitors by cyclization of 3-[2-(methylsulfinyl)-4-aminopyrimidin-5-yl]acrylates or [2,4-diaminopyrimidine-5-yl]ketones)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 18 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:545673 HCAPLUS

DOCUMENT NUMBER: 135:122511

TITLE: Preparation of 3-aminoquinazoline-2,4-dione antibacterial agents

INVENTOR(S): Bird, Paul; Ellsworth, Edmund Lee; Nguyen, Dai Quoc; Sanchez, Joseph Peter; Showalter, Howard Daniel Hollis; Singh, Rajeshwar; Stier, Michael Andrew; Tran, Tuan Phong; Watson, Brian Morgan; Yip, Judy

PATENT ASSIGNEE(S): Warner-Lambert Company, USA

SOURCE: PCT Int. Appl., 291 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001053273	A1	20010726	WO 2000-US33656	2000 1212

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

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BR 2000017010	A	20021105	BR 2000-17010	2000 1212
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EP 1255739	A1	20021113	EP 2000-984246	2000 1212
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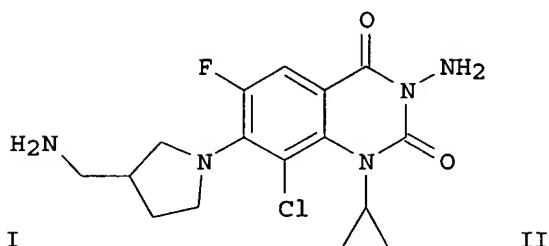
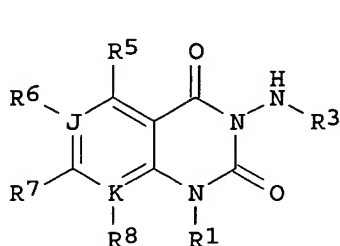
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OTHER SOURCE(S):
GI

MARPAT 135:122511



AB Title compds. (I) [wherein: R1 and R3 = independently H or (un)substituted (cyclo)alkyl, alkenyl, alkynyl, (hetero)aryl, or heterocyclic; independently R5, R6, and R8 = H or (un)substituted alkyl, alkenyl, alkynyl, or halo, NO₂, CN, NH₂, (di)alkylamino, etc.; or R1 and R8 taken together with the atoms to which they are attached may form an (un)substituted heterocycle; R7 = H or (un)substituted alkyl, alkenyl, alkynyl, (fused) heterocyclic, or (fused) aryl, or halo, NO₂, CN, NH₂, (di)alkylamino, carboxy, etc.; J and K = independently C or N; and pharmaceutically acceptable salts thereof] were prepared as antibacterial agents. For example, N'-{4-[3-(tert-butoxycarbonylaminoethyl)pyrrolidin-1-yl]-2-cyclopropylamino-5-fluorobenzoyl}hydrazinecarboxylic acid tert-Bu ester (multi-step preparation given) was chlorinated with N-chlorosuccinimide, cyclized with triphosgene in the presence of K₂CO₃, and deprotected using HCl gas to afford II•HCl. In antibacterial assays, II•HCl exhibited min. inhibitory concns. of 0.13-2.0 µg/mL against an assortment of Gram neg. and Gram pos. organisms, as well as ciprofloxacin resistant E. coli and S. aureus strains. In addition, II•HCl inhibited supercoiling activity of DNA gyrase with IC₅₀ of 1.0 µM.

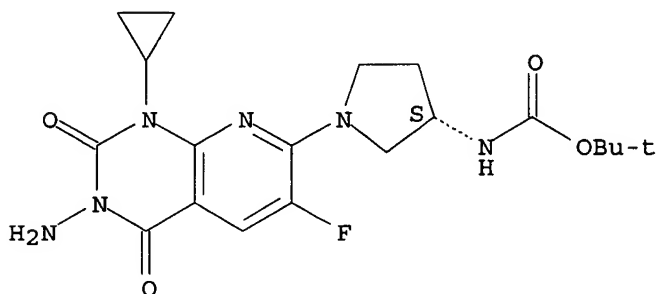
IT 351362-58-8P

(intermediate; preparation of 3-aminoquinazoline-2,4-dione antibacterial agents via multi-step syntheses involving cyclization of benzoylhydrazinecarboxylates with phosgene)

RN 351362-58-8 HCAPLUS

CN Carbamic acid, [(3S)-1-(3-amino-1-cyclopropyl-6-fluoro-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 351362-55-5P 351362-60-2P 351362-63-5P

351362-69-1P 351362-81-7P 351362-87-3P

351362-93-1P 351363-02-5P 351363-10-5P

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351371-78-3P 351371-82-9P 351371-85-2P

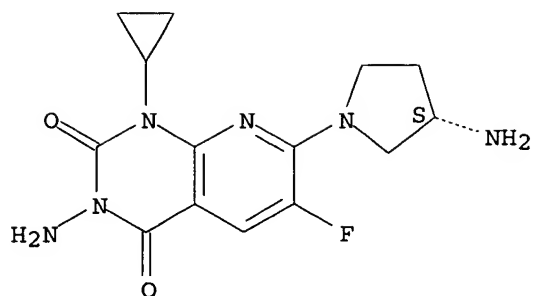
351371-87-4P 351371-89-6P 351371-91-0P

(preparation of 3-aminoquinazoline-2,4-dione antibacterial agents via multi-step syntheses involving cyclization of benzoylhydrazinecarboxylates with phosgene)

RN 351362-55-5 HCAPLUS

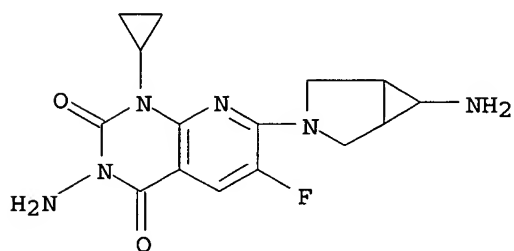
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[(3S)-3-amino-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



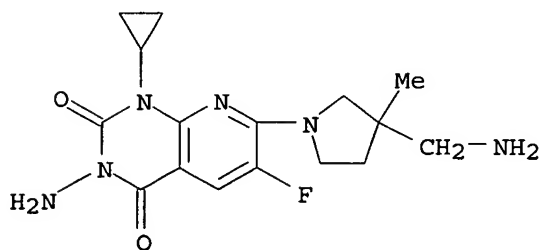
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RN 351362-60-2 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-(6-amino-3-azabicyclo[3.1.0]hex-3-yl)-1-cyclopropyl-6-fluoro-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

RN 351362-63-5 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[3-(aminomethyl)-3-methyl-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-, hydrochloride (9CI) (CA INDEX NAME)

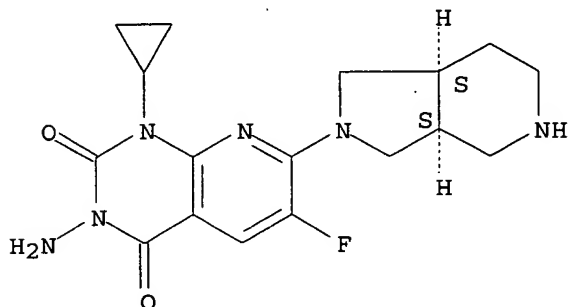


●x HCl

RN 351362-69-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-1-cyclopropyl-6-fluoro-7-[(3aS,7aS)-octahydro-2H-pyrrolo[3,4-c]pyridin-2-yl]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

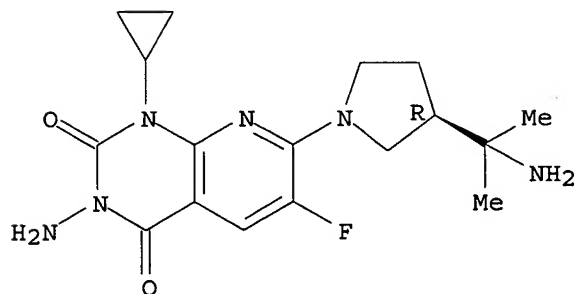


●x HCl

RN 351362-81-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[(3R)-3-(1-amino-1-methylethyl)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-, hydrochloride (9CI) (CA INDEX NAME)

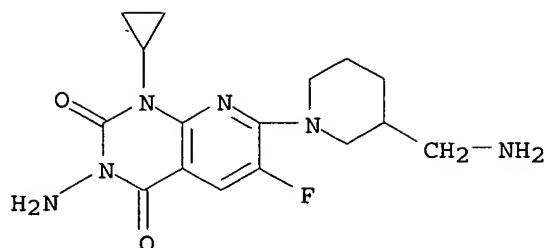
Absolute stereochemistry.



●x HCl

RN 351362-87-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[3-(aminomethyl)-1-piperidinyl]-1-cyclopropyl-6-fluoro-, dihydrochloride (9CI) (CA INDEX NAME)

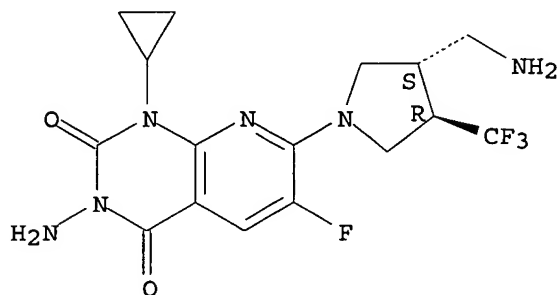


●2 HCl

RN 351362-93-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[(3R,4S)-3-(aminomethyl)-4-(trifluoromethyl)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-, hydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

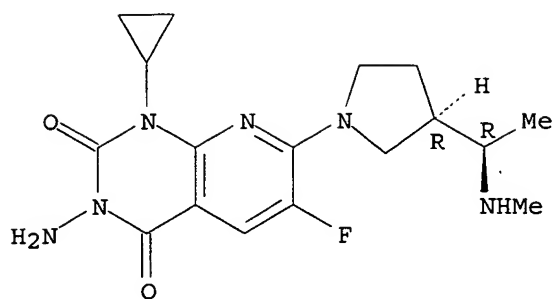


●x HCl

RN 351363-02-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-1-cyclopropyl-6-fluoro-7-[(3R)-3-[(1R)-1-(methylamino)ethyl]-1-pyrrolidinyl]-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

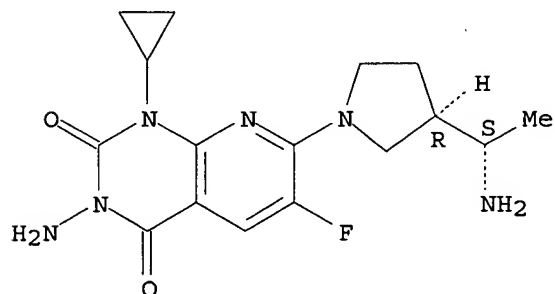


●x HCl

RN 351363-10-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[(3R)-3-[(1S)-1-aminoethyl]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

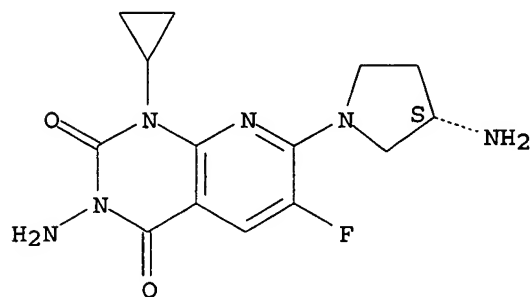


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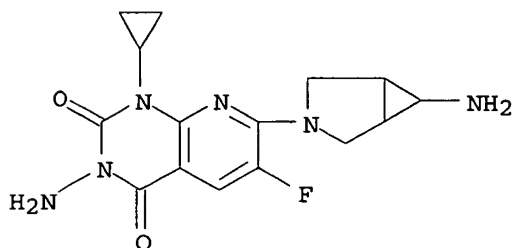
RN 351371-72-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[(3S)-3-amino-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro- (9CI) (CA INDEX NAME)

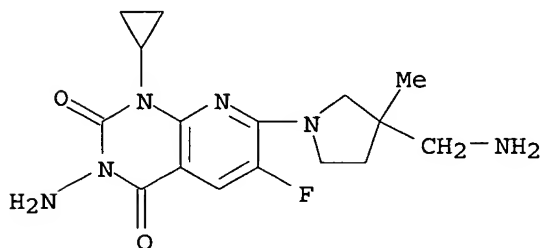
Absolute stereochemistry.



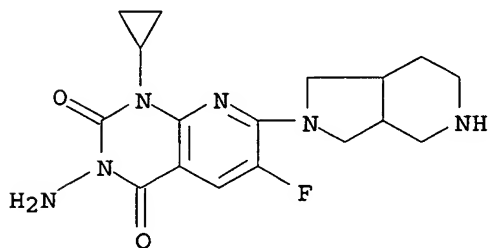
RN 351371-74-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-(6-amino-3-azabicyclo[3.1.0]hex-3-yl)-1-cyclopropyl-6-fluoro- (9CI) (CA INDEX NAME)



RN 351371-76-1 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[3-(aminomethyl)-3-methyl-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro- (9CI) (CA INDEX NAME)

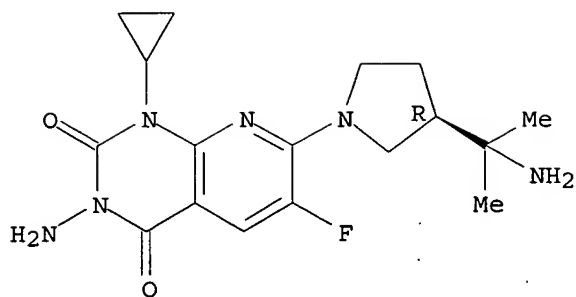


RN 351371-78-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-1-cyclopropyl-6-fluoro-7-(octahydro-2H-pyrrolo[3,4-c]pyridin-2-yl)- (9CI) (CA INDEX NAME)



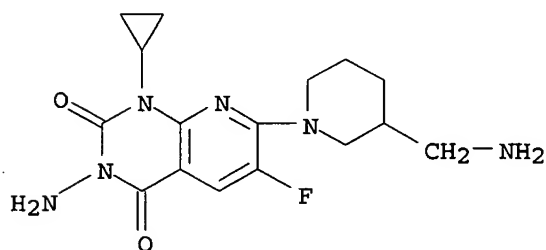
RN 351371-82-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[(3R)-3-(1-amino-1-methylethyl)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 351371-85-2 HCAPLUS

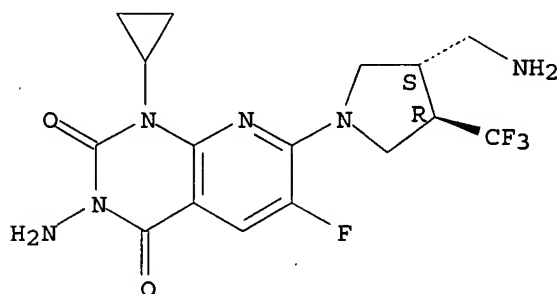
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[3-(aminomethyl)-1-piperidinyl]-1-cyclopropyl-6-fluoro- (9CI) (CA INDEX NAME)



RN 351371-87-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[(3R,4S)-3-(aminomethyl)-4-(trifluoromethyl)-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro-, rel- (9CI) (CA INDEX NAME)

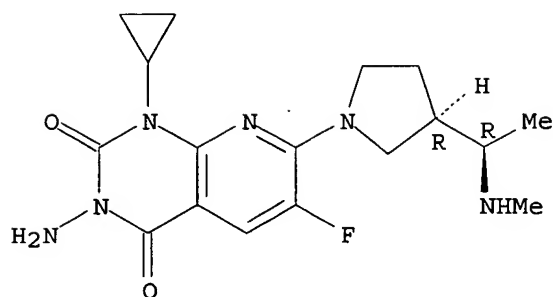
Relative stereochemistry.



RN 351371-89-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-1-cyclopropyl-6-fluoro-7-[(3R)-3-[(1R)-1-(methylamino)ethyl]-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

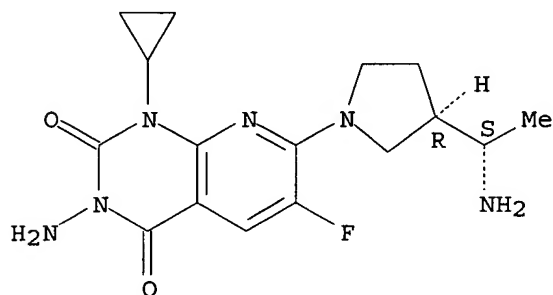
Absolute stereochemistry.



RN 351371-91-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-amino-7-[(3R)-3-[(1S)-1-aminoethyl]-1-pyrrolidinyl]-1-cyclopropyl-6-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IC ICM C07D239-96

ICS C07D403-04; C07D471-04; C07D471-06; C07D498-06; C07D403-14;
C07D519-00; C07D487-04; C07D487-10; C07D413-04; C07D417-04;
C07D409-04; A61K031-505; A61P031-04

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

IT 765-78-6P 66832-28-8P 104856-46-4P 122894-73-9P
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(intermediate; preparation of 3-aminoquinazoline-2,4-dione
antibacterial agents via multi-step syntheses involving
cyclization of benzoylhydrazinecarboxylates with phosgene)

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(preparation of 3-aminoquinazoline-2,4-dione antibacterial agents via multi-step syntheses involving cyclization of benzoylhydrazinecarboxylates with phosgene)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L36 ANSWER 19 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:320376 HCAPLUS
 DOCUMENT NUMBER: 135:92605
 TITLE: Soluble 2-Substituted Aminopyrido[2,3-d]pyrimidin-7-yl Ureas. Structure-Activity Relationships against Selected Tyrosine

Kinases and Exploration of in Vitro and in Vivo Anticancer Activity

AUTHOR(S): Schroeder, Mel C.; Hamby, James M.; Connolly, Cleo J. C.; Grohar, Patrick J.; Winters, R. Thomas; Barvian, Mark R.; Moore, Charles W.; Boushelle, Stacey L.; Crean, Sheila M.; Kraker, Alan J.; Driscoll, Denise L.; Vincent, Patrick W.; Elliott, William L.; Lu, Gina H.; Batley, Brian L.; Dahring, Tawny K.; Major, Terry C.; Panek, Robert L.; Doherty, Annette M.; Showalter, H. D. Hollis

CORPORATE SOURCE: Departments of Chemistry Cancer Research and Vascular and Cardiac Diseases, Pfizer Global Research & Development Ann Arbor Laboratories, Ann Arbor, MI, 48105, USA

SOURCE: Journal of Medicinal Chemistry (2001), 44(12), 1915-1926
CODEN: JMCMAR; ISSN: 0022-2623

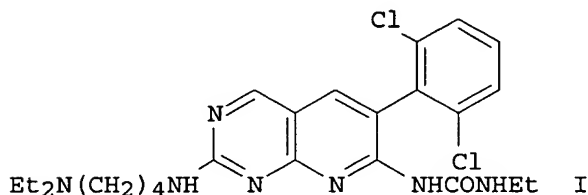
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:92605

GI



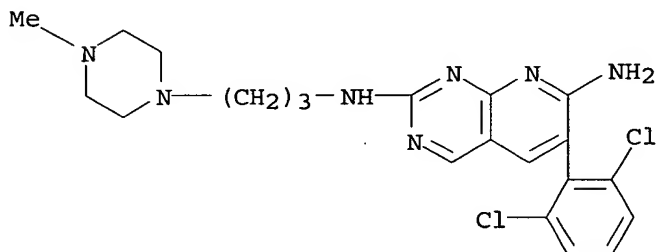
AB In a search for medicinal agents to treat proliferative diseases, 2-substituted aminopyrido[2,3-d]pyrimidin-7-ylureas were discovered as a novel class of soluble, potent, broadly active tyrosine kinase (TK) inhibitors. An efficient route was developed that enabled the synthesis of a wide variety of analogs with substitution on several positions of the template. From the lead structure, 1-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-2-yl]-3-tert.-butylurea, several series of analogs were made that examined the C-6 aryl substituent, a variety of water solubilizing substituents at the C-2 position, and urea or other acyl functionality at the N-7 position. Compds. of this series were competitive with ATP and displayed submicromolar to low nanomolar potency against a panel of TKs, including receptor (platelet-derived growth factor, PDGFr; fibroblast growth factor, FGFr;) and non-receptor (c-Src) classes. Several of the most potent compds. displayed submicromolar inhibition of PDGF-mediated receptor autophosphorylation in rat aortic vascular smooth muscle cells and low micromolar inhibition of cellular growth in five human tumor cell lines. One of the more thoroughly evaluated members, I, with IC₅₀ values of 0.21 μM (PDGFr), 0.049 μM (bFGFr), and 0.018 μM (c-Src), was evaluated in in vivo studies against a panel of five human tumor xenografts, with known and/or inferred dependence on the EGFr, PDGFr, and c-Src TKs. I produced a tumor growth delay of 14 days against the Colo-205 colon xenograft model.

IT 179343-20-5P 179343-22-7P 179343-23-8P
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(structure-activity relationships against tyrosine kinases and anticancer activity of soluble 2-aminopyrido[2,3-d]pyrimidin-7-ylureas)

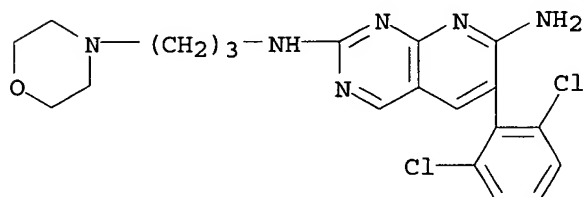
RN 179343-20-5 HCAPLUS

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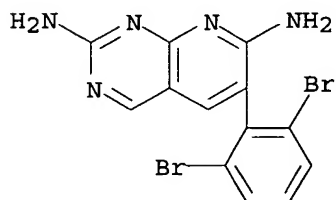
RN 179343-22-7 HCAPLUS

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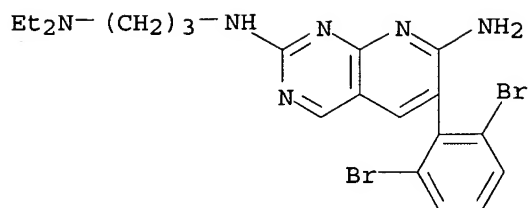
RN 179343-23-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dibromophenyl)- (9CI) (CA INDEX NAME)



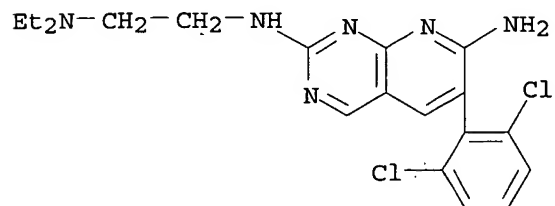
RN 179343-24-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dibromophenyl)-N2-[3-(diethylamino)propyl]- (9CI) (CA INDEX NAME)



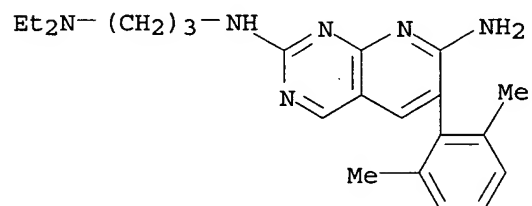
RN 179343-26-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[2-(diethylamino)ethyl]- (9CI) (CA INDEX NAME)



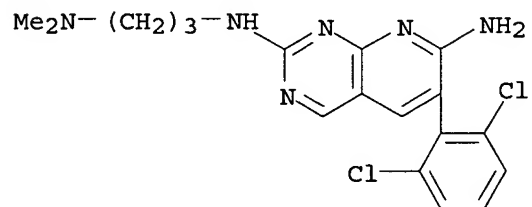
RN 179343-37-4 HCAPLUS

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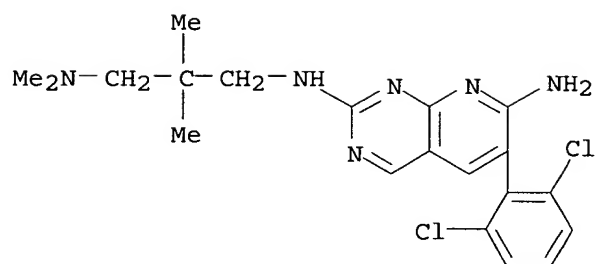
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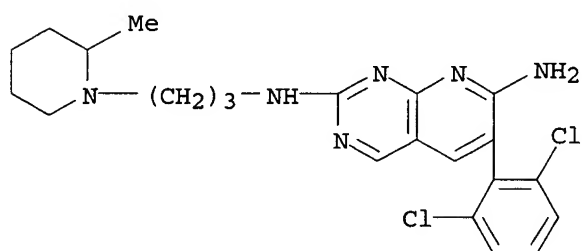
RN 179343-45-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(dimethylamino)-2,2-dimethylpropyl]- (9CI) (CA INDEX NAME)



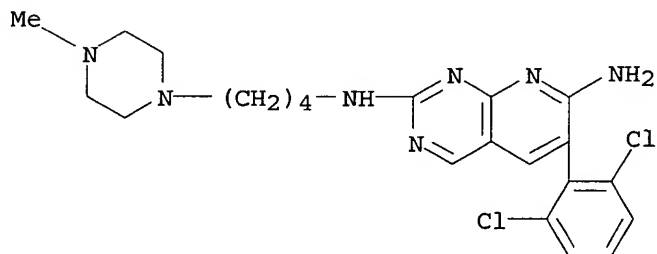
RN 179343-46-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(2-methyl-1-piperidinyl)propyl]- (9CI) (CA INDEX NAME)



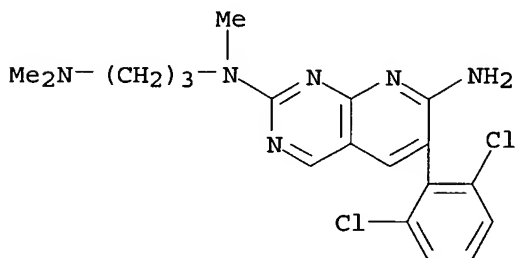
RN 179343-47-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[4-(4-methyl-1-piperazinyl)butyl]- (9CI) (CA INDEX NAME)



RN 179343-49-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(dimethylamino)propyl]-N2-methyl- (9CI) (CA INDEX NAME)

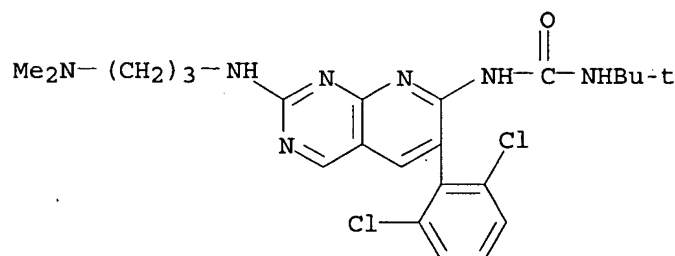


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 179343-13-6P 179343-48-7P 349135-38-2P
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 349135-82-6P 349135-86-0P 349135-88-2P
 349135-90-6P 349135-91-7P 349135-93-9P
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(structure-activity relationships against tyrosine kinases and anticancer activity of soluble 2-aminopyrido[2,3-d]pyrimidin-7-ylureas)

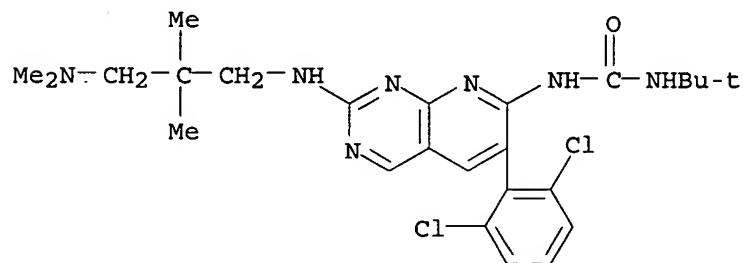
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(dimethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



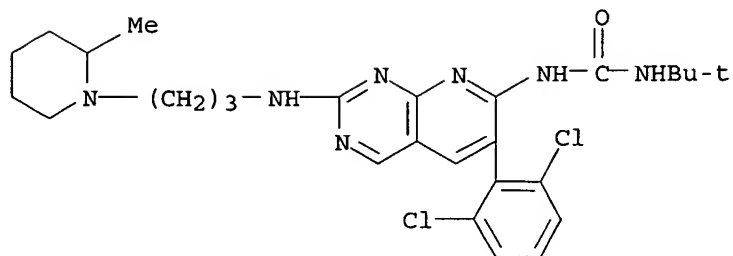
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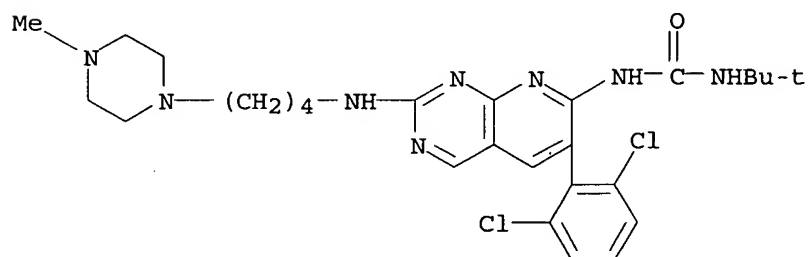
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(2-methyl-1-piperidinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



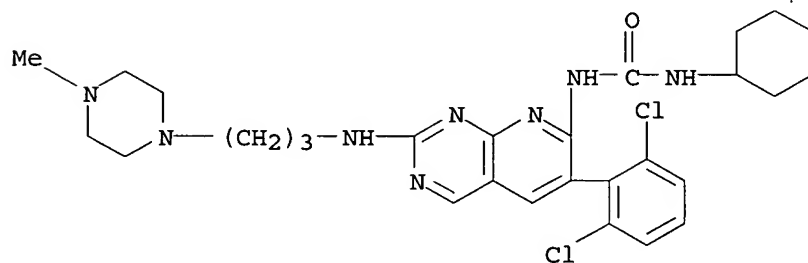
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(4-methyl-1-piperazinyl)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



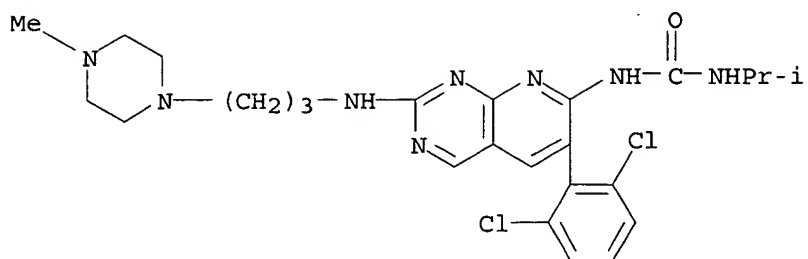
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CN Urea, N-cyclohexyl-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



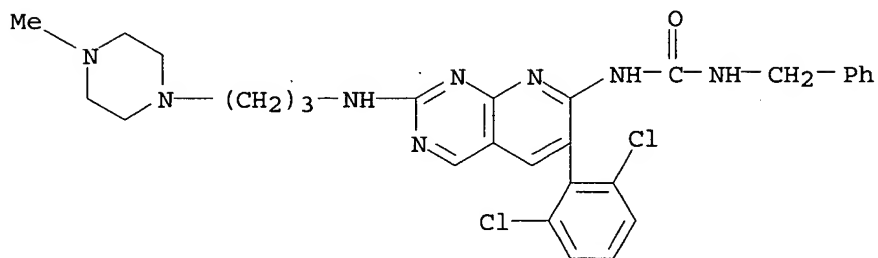
RN 179342-61-1 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



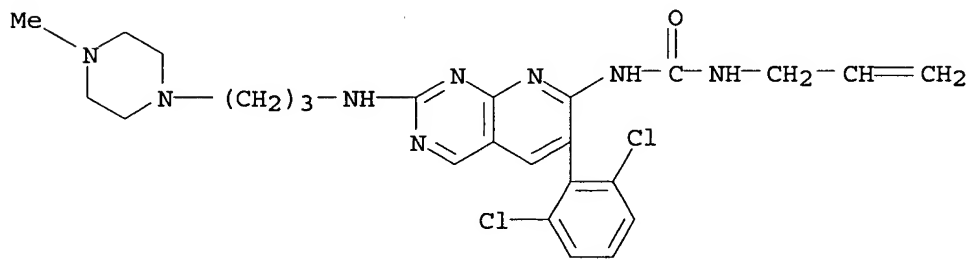
RN 179342-62-2 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



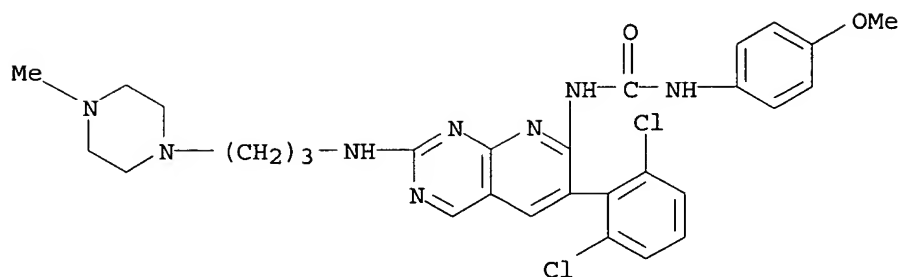
RN 179342-63-3 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-2-propenyl- (9CI) (CA INDEX NAME)



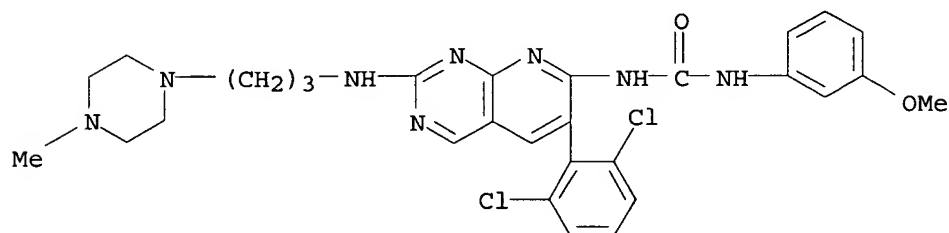
RN 179342-64-4 HCAPLUS

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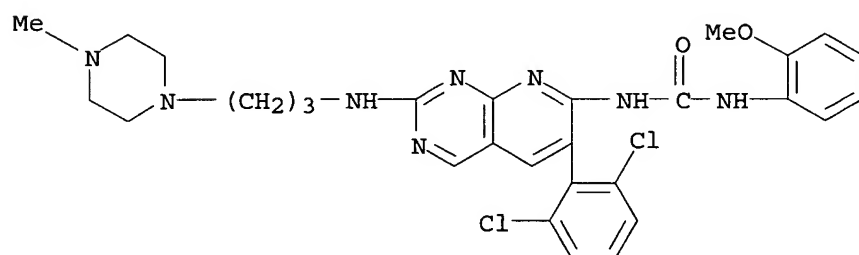
RN 179342-65-5 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(3-methoxyphenyl)-(9CI) (CA INDEX NAME)



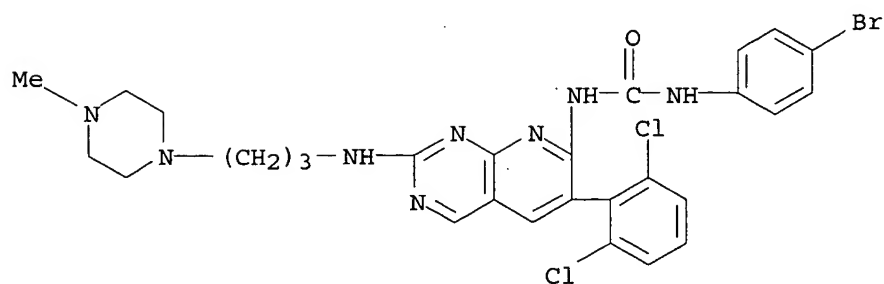
RN 179342-66-6 HCAPLUS

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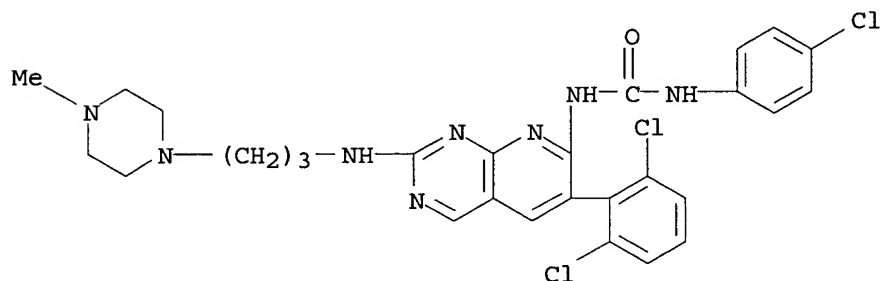
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CN Urea, N-(4-bromophenyl)-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



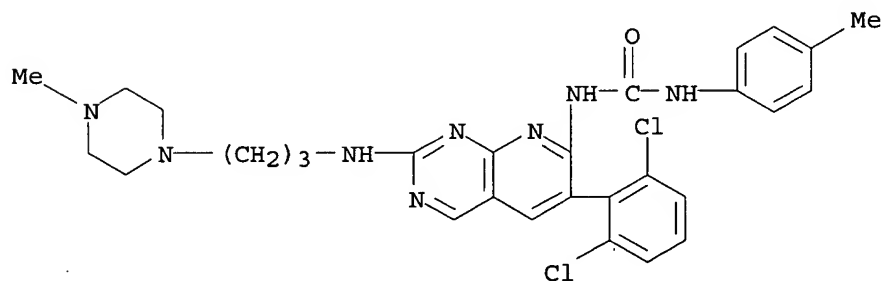
RN 179342-68-8 HCAPLUS

CN Urea, N-(4-chlorophenyl)-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



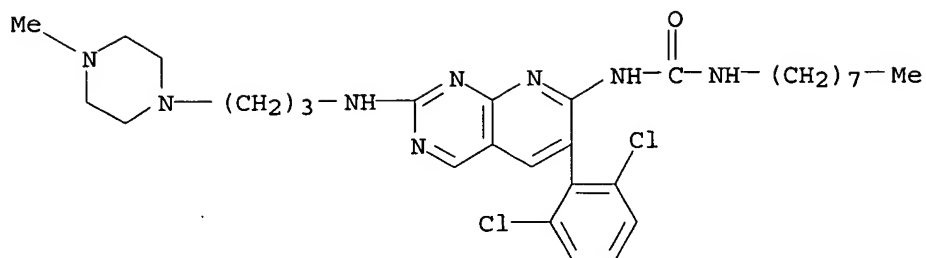
RN 179342-69-9 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(4-chlorophenyl)-(9CI) (CA INDEX NAME)



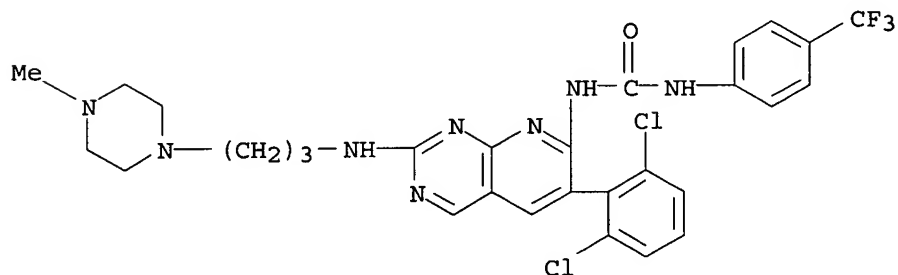
RN 179342-70-2 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-octyl-(9CI) (CA INDEX NAME)



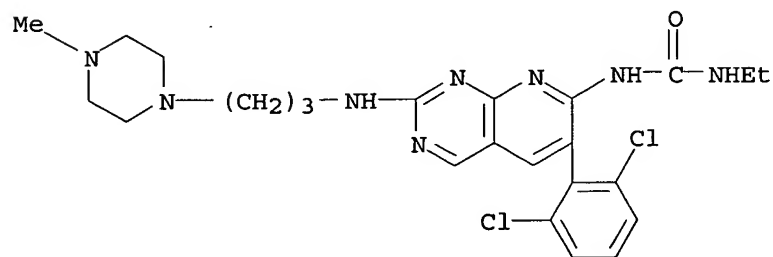
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



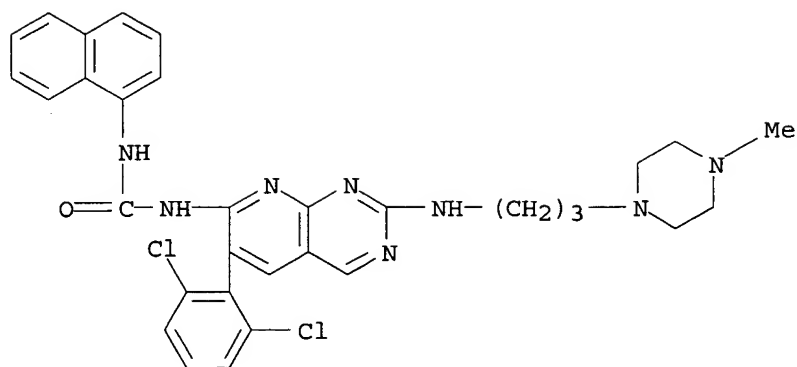
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



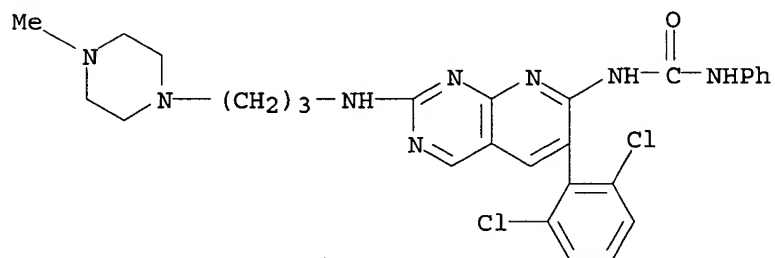
RN 179342-73-5 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



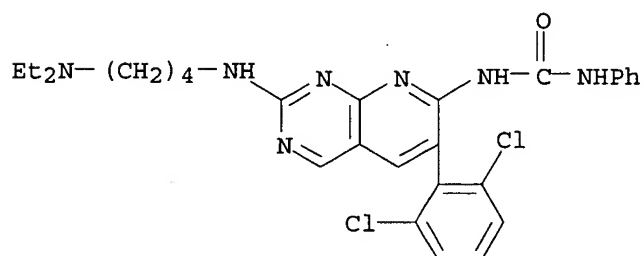
RN 179342-74-6 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl-(9CI) (CA INDEX NAME)



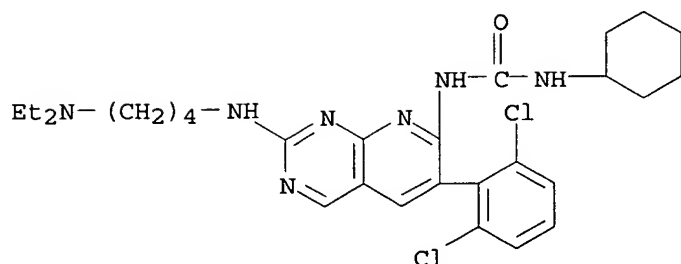
RN 179342-76-8 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl-(9CI) (CA INDEX NAME)

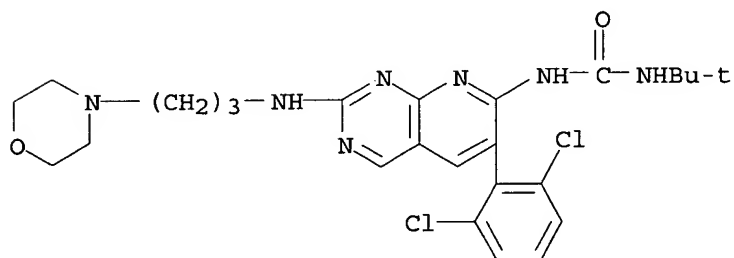


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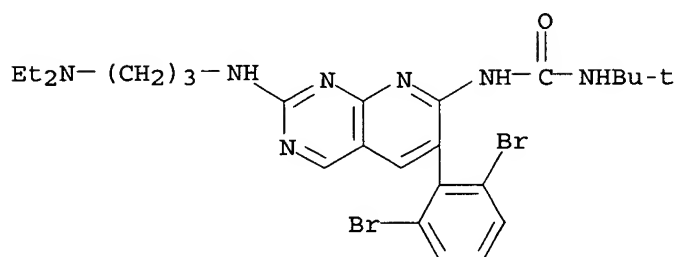
CN Urea, N-cyclohexyl-N'-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



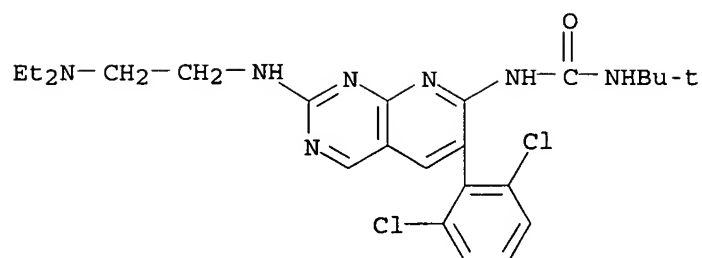
RN 179342-79-1 HCAPLUS
 CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-morpholinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 179342-80-4 HCAPLUS
 CN Urea, N-[6-(2,6-dibromophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

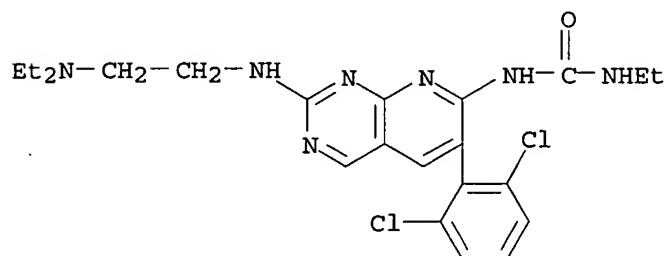


RN 179342-82-6 HCAPLUS
 CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[2-(diethylamino)ethyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



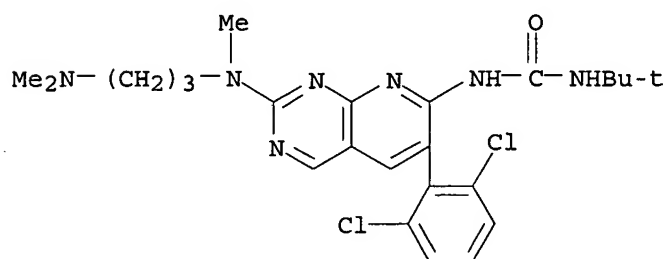
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[2-(diethylamino)ethyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl-(9CI) (CA INDEX NAME)



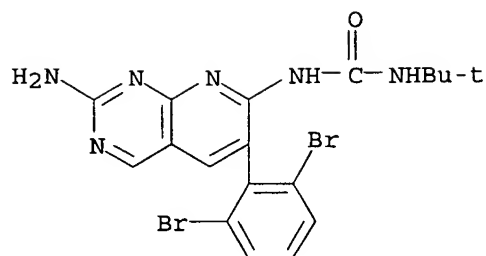
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(dimethylamino)propyl]methylamino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-(9CI) (CA INDEX NAME)



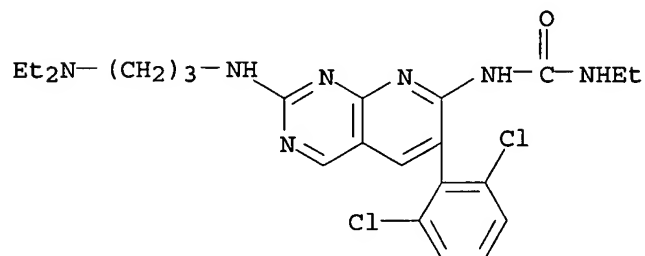
RN 179342-93-9 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-dibromophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-(9CI) (CA INDEX NAME)



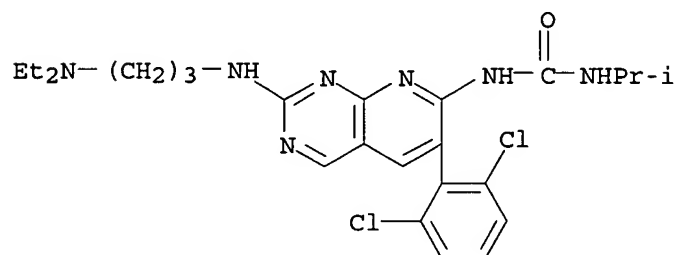
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



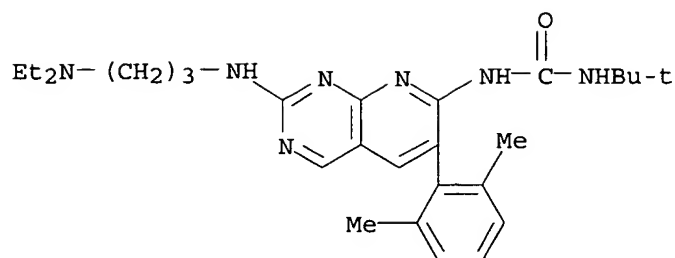
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



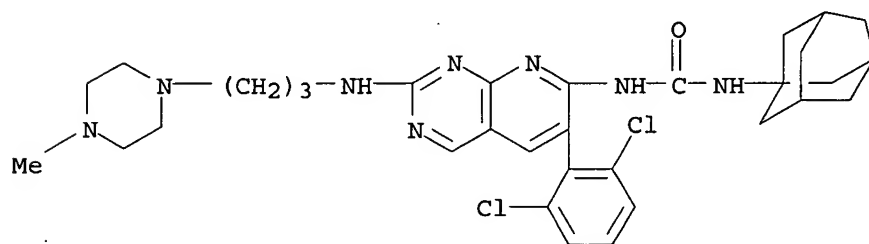
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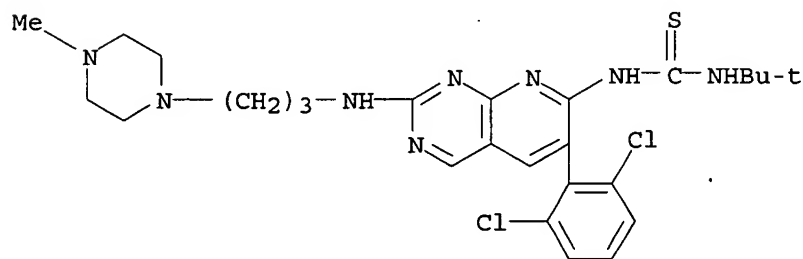
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-tricyclo[3.3.1.1^{3,7}]dec-1-yl- (9CI) (CA INDEX NAME)



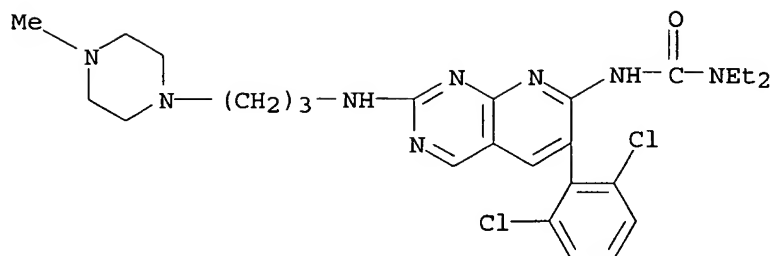
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CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



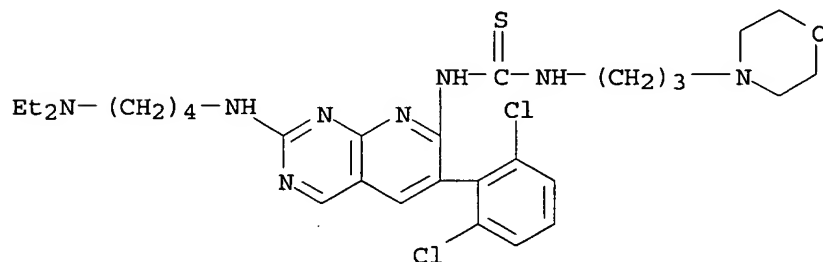
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CN Urea, N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N,N-diethyl- (9CI) (CA INDEX NAME)



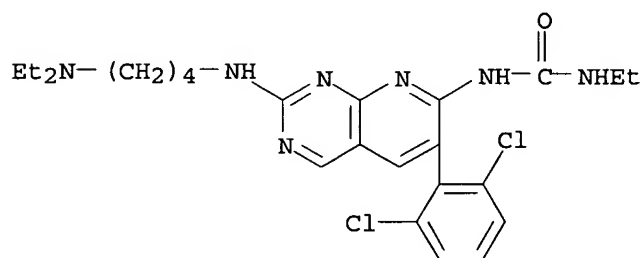
RN 179343-13-6 HCAPLUS

CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-[3-(4-morpholinyl)propyl]- (9CI) (CA INDEX NAME)



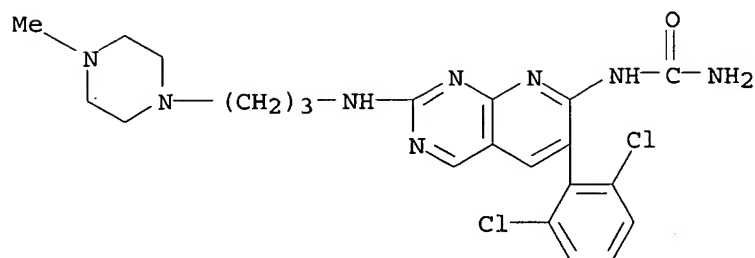
RN 179343-48-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



RN 349135-38-2 HCAPLUS

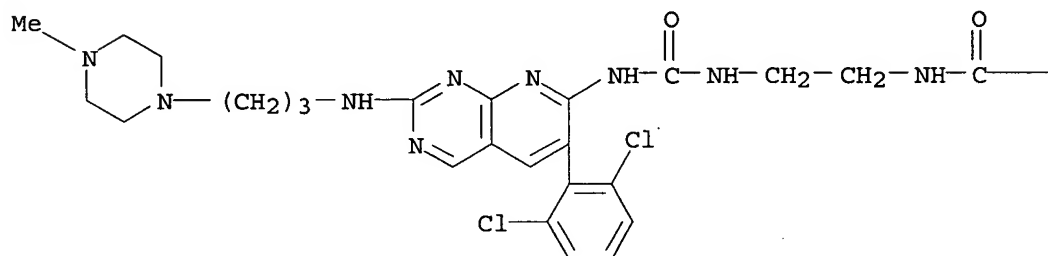
CN Urea, [6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 349135-44-0 HCAPLUS

CN Carbamic acid, [2-[[[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]amino]carbonyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)

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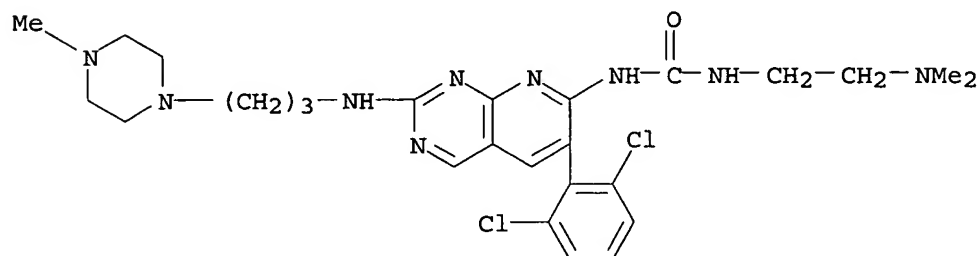


PAGE 1-B

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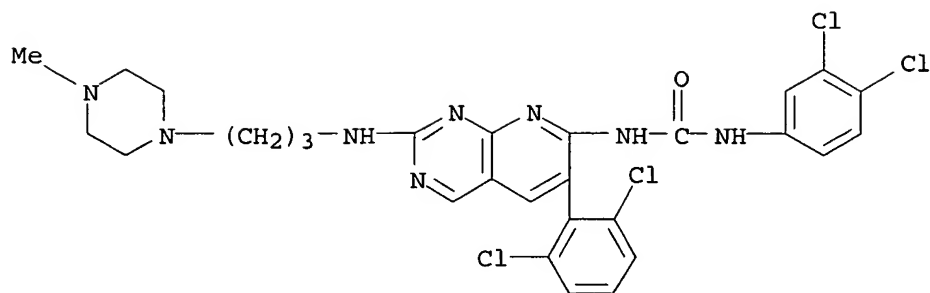
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)



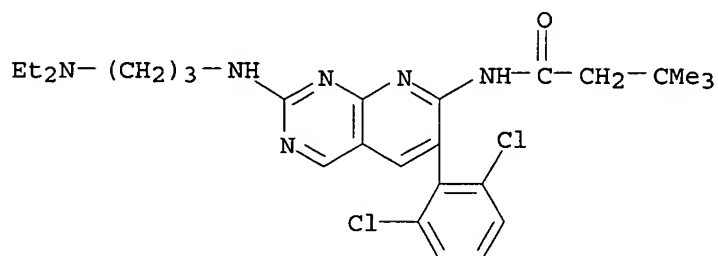
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CN Urea, N-(3,4-dichlorophenyl)-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



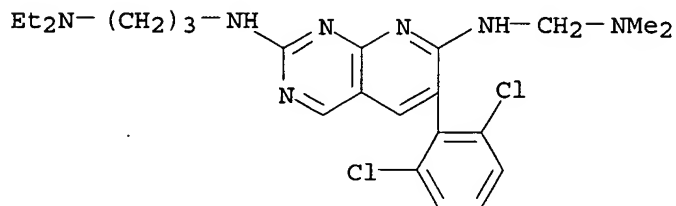
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CN Butanamide, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-3,3-dimethyl- (9CI) (CA INDEX NAME)



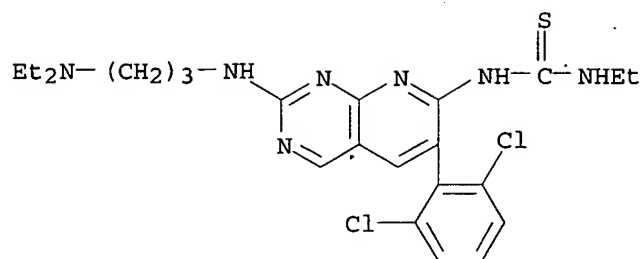
RN 349135-76-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(diethylamino)propyl]-N7-[(dimethylamino)methyl]- (9CI) (CA INDEX NAME)



RN 349135-79-1 HCAPLUS

CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



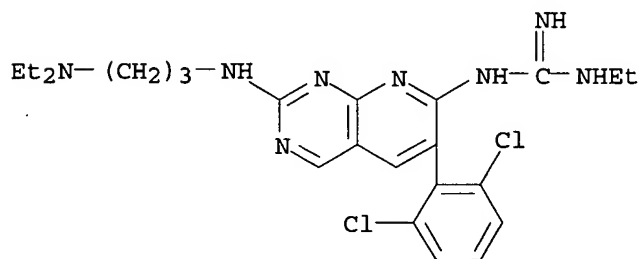
RN 349135-82-6 HCAPLUS

CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl-, tris(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 179343-16-9

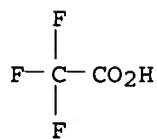
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CM 2

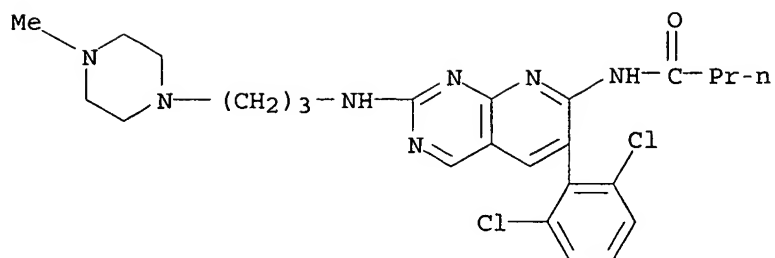
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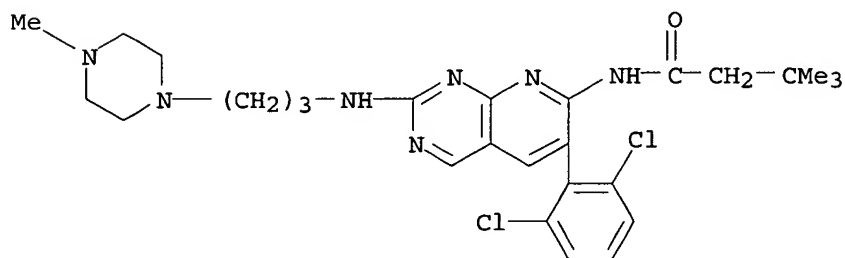
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CN Butanamide, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



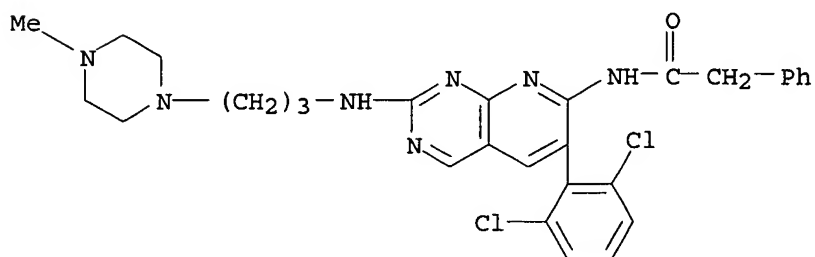
RN 349135-88-2 HCAPLUS

CN Butanamide, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-3,3-dimethyl- (9CI) (CA INDEX NAME)



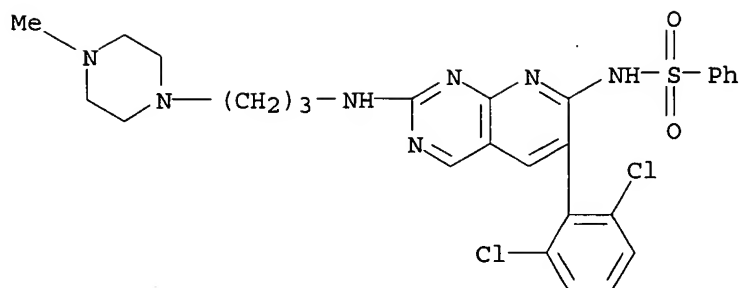
RN 349135-90-6 HCAPLUS

CN Benzeneacetamide, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 349135-91-7 HCAPLUS

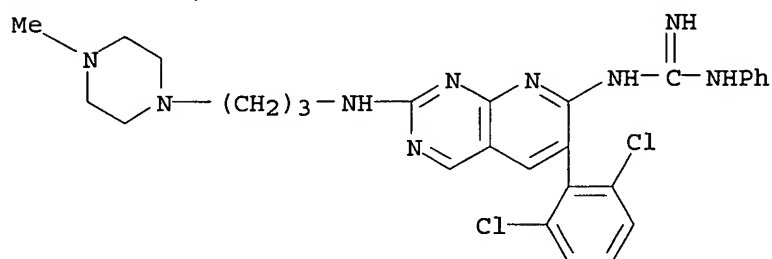
CN Benzenesulfonamide, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 349135-93-9 HCAPLUS
 CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl-, tris(trifluoroacetate) (9CI) (CA INDEX NAME)

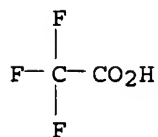
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CRN 197635-56-6
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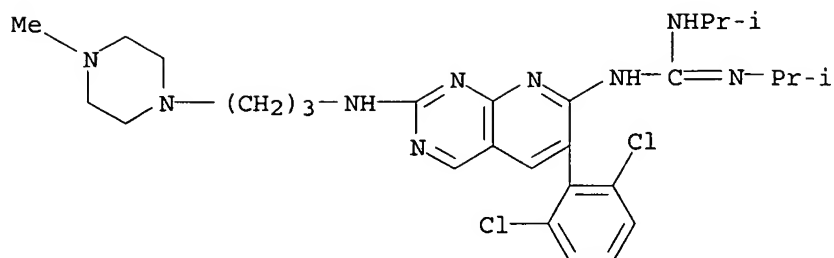


CM 2

CRN 76-05-1
 CMF C2 H F3 O2

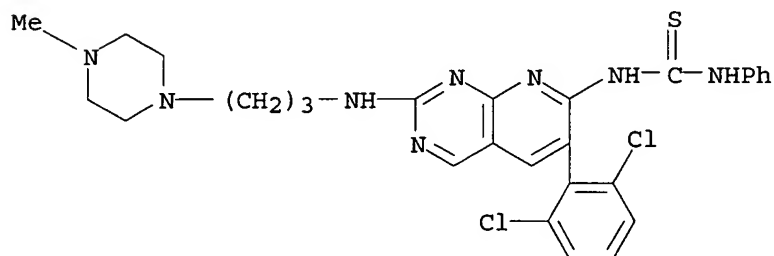


RN 349135-95-1 HCAPLUS
 CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N',N''-bis(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 349135-98-4 HCAPLUS

CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl-(9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

IT 179343-20-5P 179343-22-7P 179343-23-8P
179343-24-9P 179343-26-1P 179343-37-4P
179343-44-3P 179343-45-4P 179343-46-5P
179343-47-6P 179343-49-8P

(structure-activity relationships against tyrosine kinases and anticancer activity of soluble 2-aminopyrido[2,3-d]pyrimidin-7-ylureas)

IT 179342-55-3P 179342-56-4P 179342-57-5P
179342-58-6P 179342-60-0P 179342-61-1P
179342-62-2P 179342-63-3P 179342-64-4P
179342-65-5P 179342-66-6P 179342-67-7P
179342-68-8P 179342-69-9P 179342-70-2P
179342-71-3P 179342-72-4P 179342-73-5P
179342-74-6P 179342-76-8P 179342-78-0P
179342-79-1P 179342-80-4P 179342-82-6P
179342-83-7P 179342-84-8P 179342-93-9P
179343-05-6P 179343-06-7P 179343-08-9P
179343-09-0P 179343-10-3P 179343-11-4P
179343-13-6P 179343-48-7P 349135-38-2P
349135-44-0P 349135-46-2P 349135-61-1P
349135-73-5P 349135-76-8P 349135-79-1P
349135-82-6P 349135-86-0P 349135-88-2P
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349135-95-1P 349135-98-4P

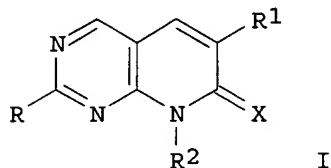
(structure-activity relationships against tyrosine kinases and anticancer activity of soluble 2-aminopyrido[2,3-d]pyrimidin-7-ylureas)

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L36 ANSWER 20 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:561587 HCAPLUS
DOCUMENT NUMBER: 131:184962
TITLE: Preparation of oxidoamino-substituted
pyrido[2,3-d]pyrimidines as protein tyrosine
kinase inhibitors
INVENTOR(S): Doherty, Annette Marian; Hallak, Hussein
Osman; Hamby, James Marino
PATENT ASSIGNEE(S): Warner-Lambert Company, USA
SOURCE: U.S., 25 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

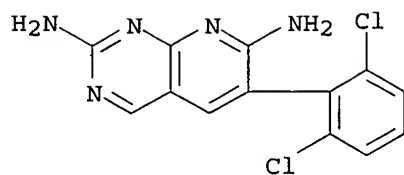
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5945422	A	19990831	US 1998-15739	1998 0129
<--				
PRIORITY APPLN. INFO.:			US 1997-38822P	P 1997 0205
<--				
OTHER SOURCE(S):	MARPAT 131:184962			
GI				



AB Title compds. [I; R = ONR5R6Z1Z2NH; R1 = (un)substituted Ph or heteroaryl; R2 = H, (cyclo)alkyl, phenyl(alkyl), heteroaryl, etc.; R5, R6 = H, alkyl, phenyl(alkyl), etc.; R5R6 = atoms to complete a ring; X = O, S, (acyl)imino; Z1, Z2 = bond, alkylene(oxy), -(thio), arylene] were prepared. Thus, I (R1 = C6H3Cl2-2,6, R2 = Me, X = O) (II; R = SMe) was aminated by Et2NCH2CH2OC6H4(NH2)-4 and the product oxidized to give II [R = 4-(ONet2CH2CH2O)C6H4NH]. Data for biol. activity of I were given.

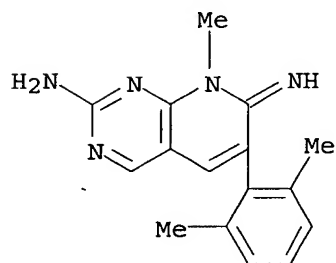
IT 26752-70-5P 185039-20-7P 185039-21-8P
185039-22-9P 185039-29-6P 185039-30-9P
185039-37-6P 185039-38-7P 185040-22-6P
185040-24-8P
(preparation of oxidoamino-substituted pyrido[2,3-d]pyrimidines as protein tyrosine kinase inhibitors)

RN 26752-70-5 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)- (9CI)
(CA INDEX NAME)



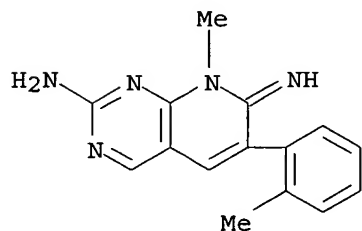
RN 185039-20-7 HCAPLUS

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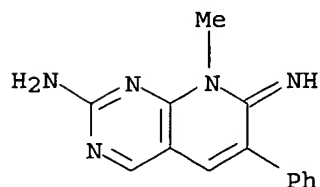
RN 185039-21-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-2-amine, 7,8-dihydro-7-imino-8-methyl-6-(2-methylphenyl)- (9CI) (CA INDEX NAME)



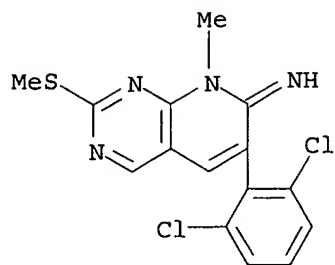
RN 185039-22-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-2-amine, 7,8-dihydro-7-imino-8-methyl-6-phenyl- (9CI) (CA INDEX NAME)



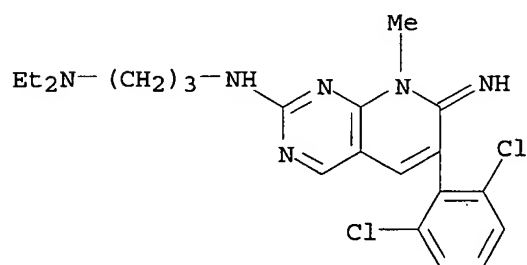
RN 185039-29-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(8H)-imine, 6-(2,6-dichlorophenyl)-8-methyl-2-(methylthio)- (9CI) (CA INDEX NAME)



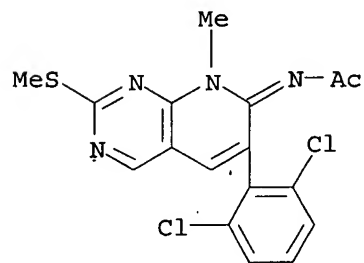
RN 185039-30-9 HCAPLUS

CN 1,3-Propanediamine, N'-[6-(2,6-dichlorophenyl)-7,8-dihydro-7-imino-8-methylpyrido[2,3-d]pyrimidin-2-yl]-N,N-diethyl- (9CI) (CA INDEX NAME)



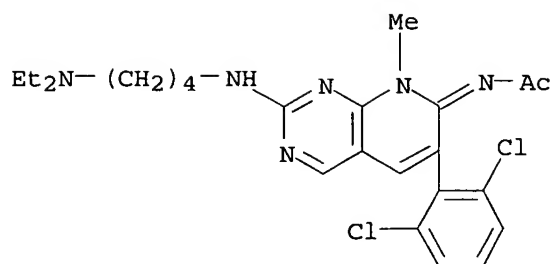
RN 185039-37-6 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-8-methyl-2-(methylthio)pyrido[2,3-d]pyrimidin-7(8H)-ylidene]- (9CI) (CA INDEX NAME)

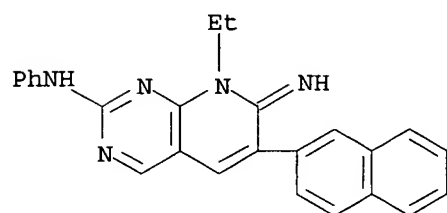


RN 185039-38-7 HCAPLUS

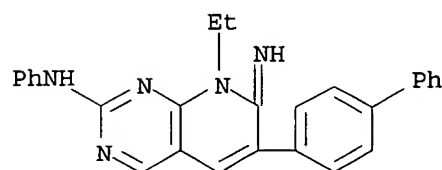
CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]-8-methylpyrido[2,3-d]pyrimidin-7(8H)-ylidene]- (9CI) (CA INDEX NAME)



RN 185040-22-6 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-2-amine, 8-ethyl-7,8-dihydro-7-imino-6-(2-naphthalenyl)-N-phenyl- (9CI) (CA INDEX NAME)



RN 185040-24-8 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-2-amine, 6-[1,1'-biphenyl]-4-yl-8-ethyl-7,8-dihydro-7-imino-N-phenyl- (9CI) (CA INDEX NAME)



IC ICM A61K031-505
 ICS C07D471-04
 INCL 514258000
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1
 IT 17759-30-7P 26752-70-5P 33089-15-5P 76360-82-2P
 89487-99-0P 185039-20-7P 185039-21-8P
 185039-22-9P 185039-23-0P 185039-27-4P
 185039-29-6P 185039-30-9P 185039-31-0P
 185039-35-4P 185039-36-5P 185039-37-6P
 185039-38-7P 185039-39-8P 185039-40-1P 185039-41-2P
 185039-42-3P 185039-43-4P 185039-47-8P 185039-48-9P
 185039-55-8P 185039-56-9P 185039-58-1P 185039-59-2P
 185039-60-5P 185039-61-6P 185039-68-3P 185039-79-6P
 185039-80-9P 185039-88-7P 185039-89-8P 185040-22-6P
 185040-24-8P 185040-27-1P 185040-28-2P 185040-29-3P
 185040-30-6P 185040-31-7P 185040-32-8P 205115-81-7P
 205115-85-1P 205115-86-2P 205115-92-0P

(preparation of oxidoamino-substituted pyrido[2,3-d]pyrimidines as

protein tyrosine kinase inhibitors)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L36 ANSWER 21 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:311055 HCAPLUS

DOCUMENT NUMBER: 130:338119

TITLE: Preparation of 7-substituted
3-hydroxyquinazoline-2,4-diones and related
compounds as antibacterial agents.

INVENTOR(S): Domagala, John Michael; Ellsworth, Edmund Lee;
Huang, Liren; Renau, Thomas Eric; Singh,
Rajeshwar; Stier, Michael Andrew

PATENT ASSIGNEE(S): Warner Lambert Co., USA

SOURCE: PCT Int. Appl., 137 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9921840	A1	19990506	WO 1998-US19877	1998 0923

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ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN,
MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ,
VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9895039	A1	19990517	AU 1998-95039	1998 0923
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EP 1028950	A1	20000823	EP 1998-948473	1998 0923
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EP 1028950 B1 20030502
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT, IE, SI, LT, LV, FI, RO

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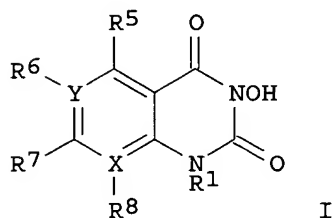
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ES 2195397	T3	20031201	ES 1998-948473	1998 0923
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ZA 9809783	A	19990428	ZA 1998-9783
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				1998 1027
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US 6331538	B1	20011218	US 2000-508796	
				2000 0315
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US 2002115674	A1	20020822	US 2001-971343	
				2001 1004
			<--	
US 6825199	B2	20041130		
PRIORITY APPLN. INFO.:			US 1997-63556P	P 1997 1028
			<--	
			US 1998-98588P	P 1998 0831
			<--	
			WO 1998-US19877	W 1998 0923
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			US 2000-508796	A3 2000 0315
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OTHER SOURCE(S):		MARPAT 130:338119		
GI				

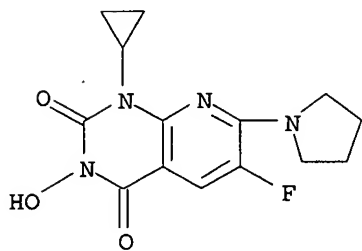


AB Title compds. [I; R1 = H, (substituted) alkyl, cycloalkyl, heterocyclyl, Ph; R5, R6, R8 = H, F, Cl, Br, NO₂, cyano, CF₃, alkyl, cycloalkyl, amino, etc.; R7 = R5, (substituted) carbocyclyl, Ph, (fused) heterocyclyl, etc.; R1R8 = (substituted) 6-7 membered (heterocyclic) ring; X, Y = C, N], were prepared Thus, 1-cyclopropyl-6-fluoro-3-hydroxy-7-(pyrrolidin-1-yl)-1H-quinazoline-2,4-dione (preparation given) inhibited *Staphylococcus aureus* with min. inhibitory concentration = 1.0 µg/mL.

IT 224189-62-2P 224189-63-3P 224189-64-4P
 224189-65-5P 224189-67-7P 224189-68-8P
 224189-97-3P 224189-98-4P 224189-99-5P
 224190-00-5P 224190-01-6P 224190-02-7P
 224190-03-8P 224190-04-9P 224190-06-1P
 224190-07-2P 224191-76-8P
 (preparation of 7-substituted 3-hydroxyquinazoline-2,4-diones and related compds. as antibacterial agents)

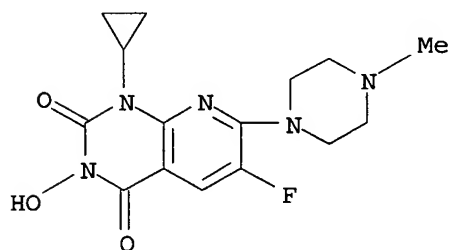
RN 224189-62-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-cyclopropyl-6-fluoro-3-hydroxy-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 224189-63-3 HCAPLUS

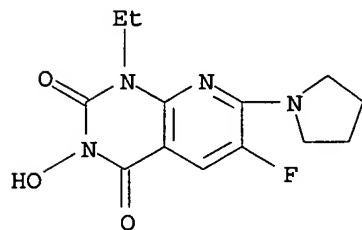
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-cyclopropyl-6-fluoro-3-hydroxy-7-(4-methyl-1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

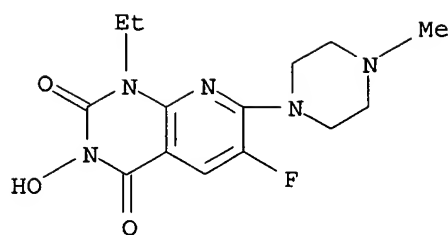
RN 224189-64-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-ethyl-6-fluoro-3-hydroxy-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 224189-65-5 HCAPLUS

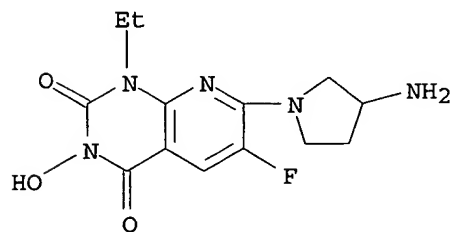
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-ethyl-6-fluoro-3-hydroxy-7-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 224189-67-7 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 7-(3-amino-1-pyrrolidinyl)-1-ethyl-6-fluoro-3-hydroxy-, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

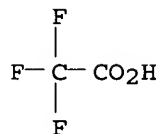
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CRN 224189-66-6
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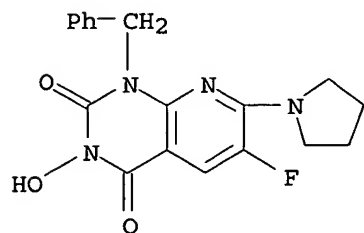


CM 2

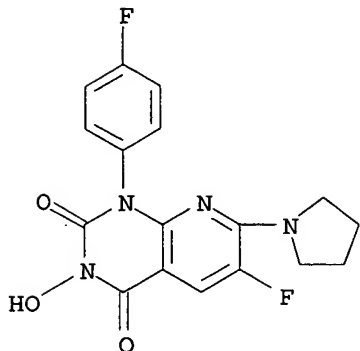
CRN 76-05-1
 CMF C2 H F3 O2



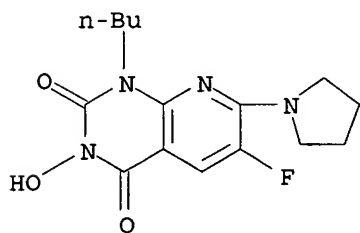
RN 224189-68-8 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-3-hydroxy-1-(phenylmethyl)-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



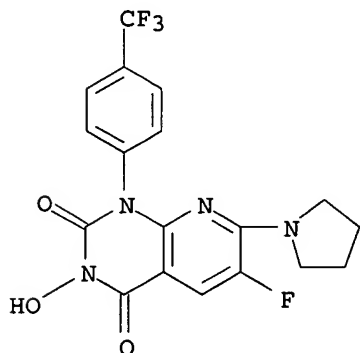
RN 224189-97-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-1-(4-fluorophenyl)-3-hydroxy-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



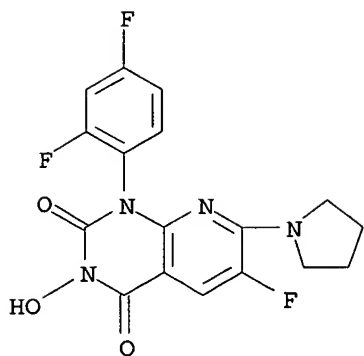
RN 224189-98-4 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-butyl-6-fluoro-3-hydroxy-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 224189-99-5 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-3-hydroxy-7-(1-pyrrolidinyl)-1-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

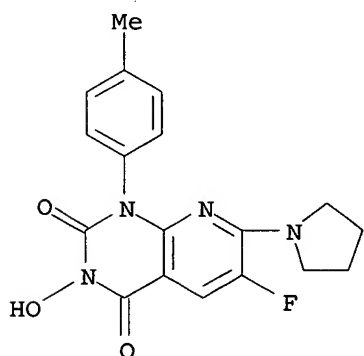


RN 224190-00-5 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-(2,4-difluorophenyl)-6-fluoro-3-hydroxy-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



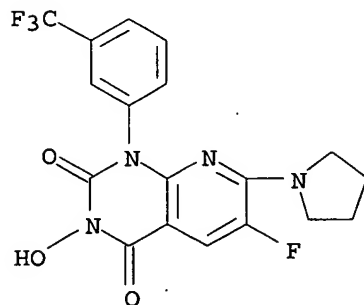
RN 224190-01-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-3-hydroxy-1-(4-methylphenyl)-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



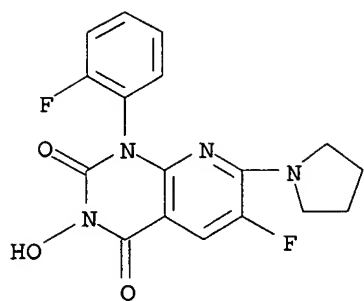
RN 224190-02-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-3-hydroxy-7-(1-pyrrolidinyl)-1-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



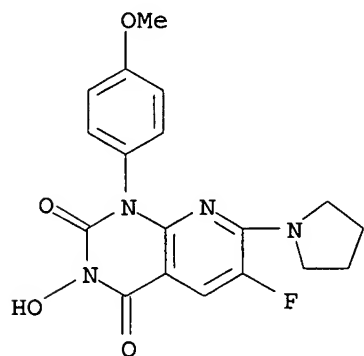
RN 224190-03-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-1-(2-fluorophenyl)-3-hydroxy-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



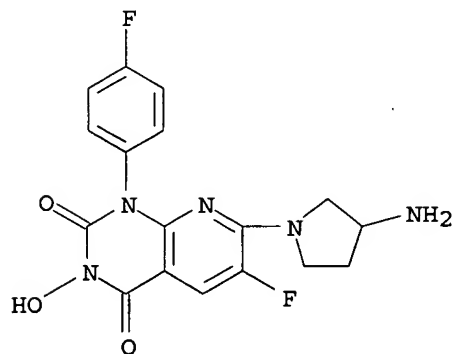
RN 224190-04-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-3-hydroxy-1-(4-methoxyphenyl)-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 224190-06-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 7-(3-amino-1-pyrrolidinyl)-6-fluoro-1-(4-fluorophenyl)-3-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

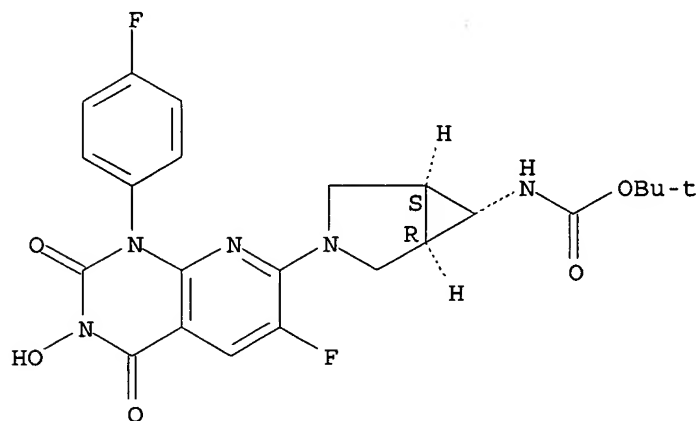


● HCl

RN 224190-07-2 HCAPLUS

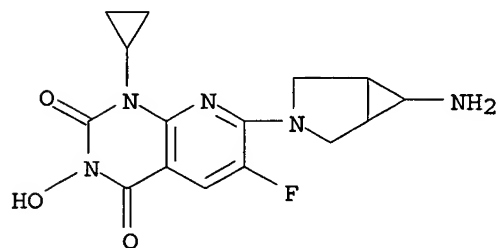
CN Carbamic acid, [(1 α ,5 α ,6 α)-3-[6-fluoro-1-(4-fluorophenyl)-1,2,3,4-tetrahydro-3-hydroxy-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-3-azabicyclo[3.1.0]hex-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 224191-76-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 7-(6-amino-3-azabicyclo[3.1.0]hex-3-yl)-1-cyclopropyl-6-fluoro-3-hydroxy- (9CI)
(CA INDEX NAME)

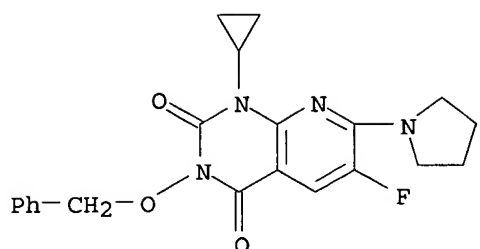


IT 224190-70-9P 224190-71-0P 224190-83-4P
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224191-28-0P 224191-29-1P 224191-30-4P
224191-31-5P 224191-32-6P 224191-35-9P
224191-36-0P 224191-53-1P

(preparation of 7-substituted 3-hydroxyquinazoline-2,4-diones and related compds. as antibacterial agents)

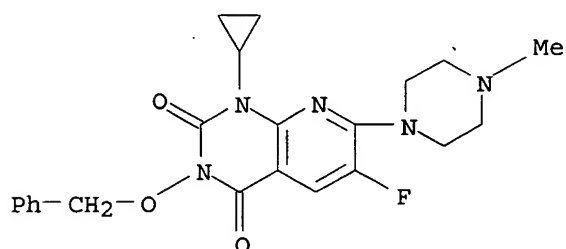
RN 224190-70-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-cyclopropyl-6-fluoro-3-(phenylmethoxy)-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



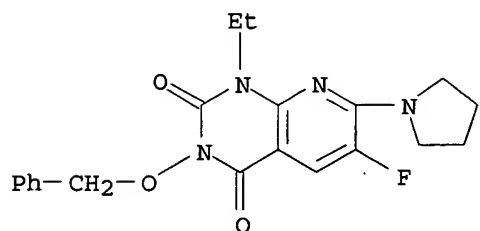
RN 224190-71-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-cyclopropyl-6-fluoro-7-(4-methyl-1-piperazinyl)-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)



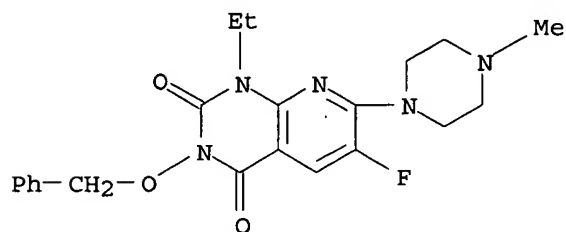
RN 224190-83-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-ethyl-6-fluoro-3-(phenylmethoxy)-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 224190-84-5 HCAPLUS

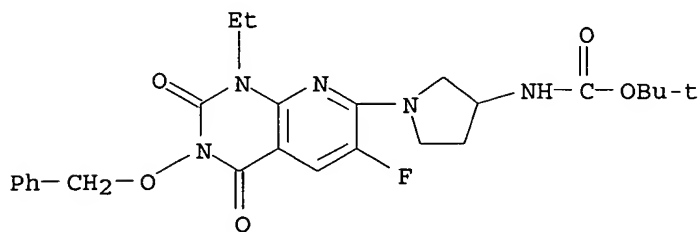
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-ethyl-6-fluoro-7-(4-methyl-1-piperazinyl)-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)



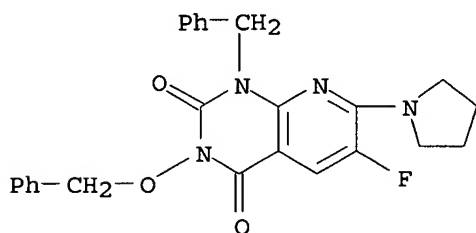
RN 224190-85-6 HCAPLUS

CN Carbamic acid, [1-[1-ethyl-6-fluoro-1,2,3,4-tetrahydro-2,4-dioxo-3-

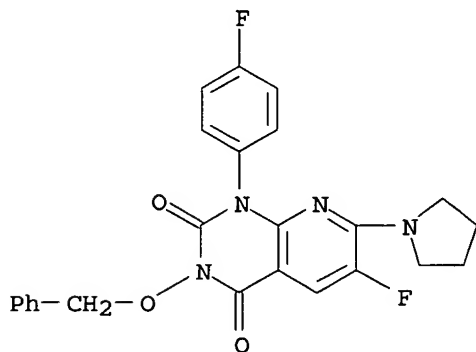
(phenylmethoxy)pyrido[2,3-d]pyrimidin-7-yl]-3-pyrrolidinyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



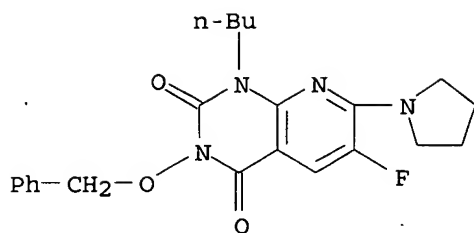
RN 224190-86-7 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-3-
(phenylmethoxy)-1-(phenylmethyl)-7-(1-pyrrolidinyl)- (9CI) (CA
INDEX NAME)



RN 224191-25-7 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-1-(4-
fluorophenyl)-3-(phenylmethoxy)-7-(1-pyrrolidinyl)- (9CI) (CA
INDEX NAME)

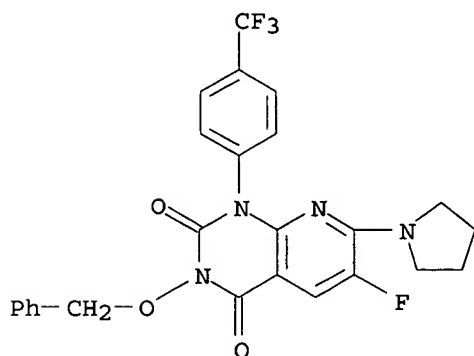


RN 224191-26-8 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-butyl-6-fluoro-3-
(phenylmethoxy)-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



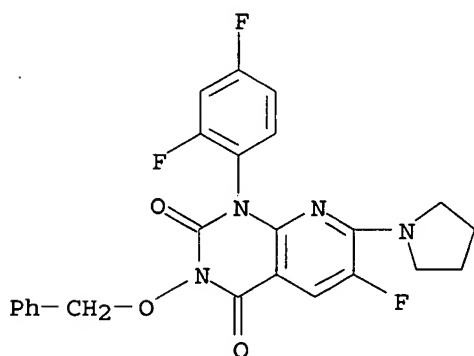
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CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-3-(phenylmethoxy)-7-(1-pyrrolidinyl)-1-[4-(trifluoromethyl)phenyl]-(9CI) (CA INDEX NAME)



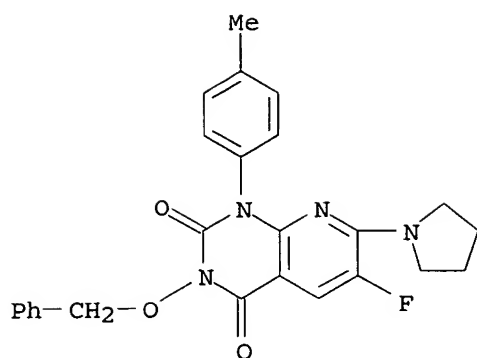
RN 224191-28-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-(2,4-difluorophenyl)-6-fluoro-3-(phenylmethoxy)-7-(1-pyrrolidinyl)-(9CI) (CA INDEX NAME)



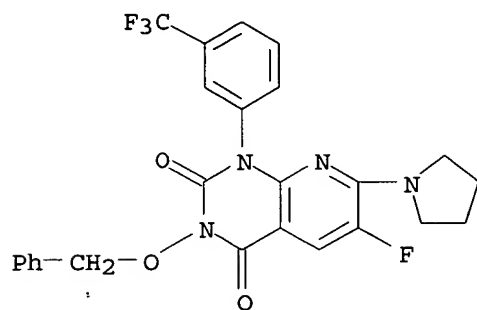
RN 224191-29-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-1-(4-methylphenyl)-3-(phenylmethoxy)-7-(1-pyrrolidinyl)-(9CI) (CA INDEX NAME)



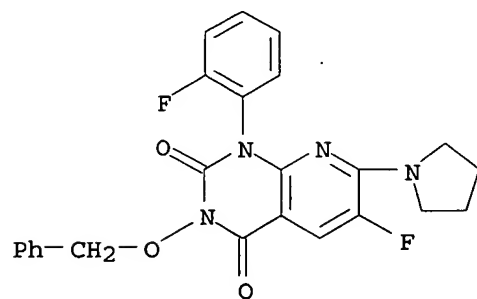
RN 224191-30-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-3-(phenylmethoxy)-7-(1-pyrrolidinyl)-1-[3-(trifluoromethyl)phenyl]-(9CI) (CA INDEX NAME)



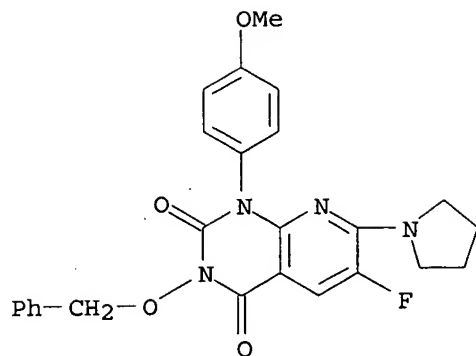
RN 224191-31-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-1-(2-fluorophenyl)-3-(phenylmethoxy)-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



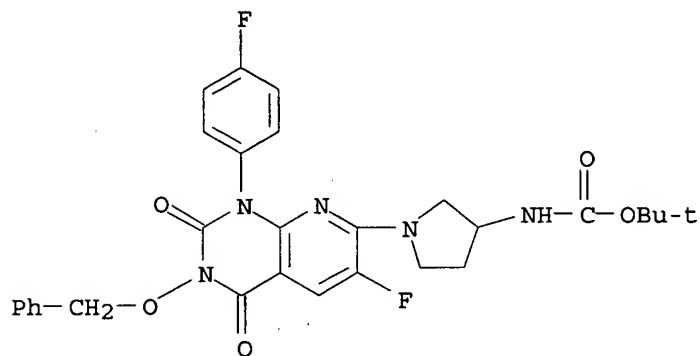
RN 224191-32-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 6-fluoro-1-(4-methoxyphenyl)-3-(phenylmethoxy)-7-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 224191-35-9 HCAPLUS

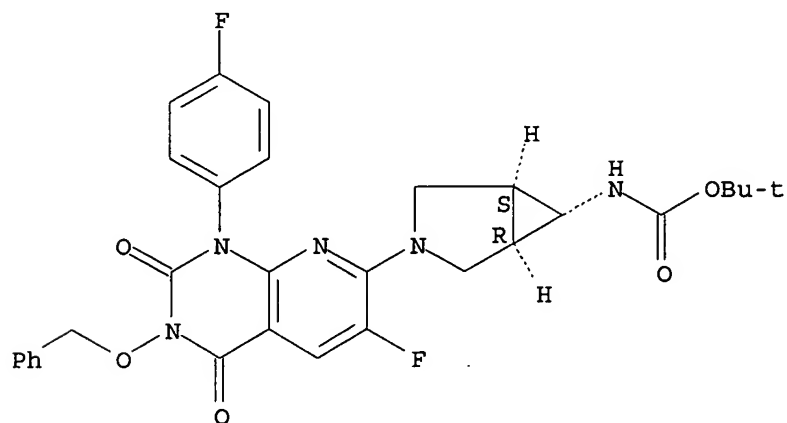
CN Carbamic acid, [1-[6-fluoro-1-(4-fluorophenyl)-1,2,3,4-tetrahydro-2,4-dioxo-3-(phenylmethoxy)pyrido[2,3-d]pyrimidin-7-yl]-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



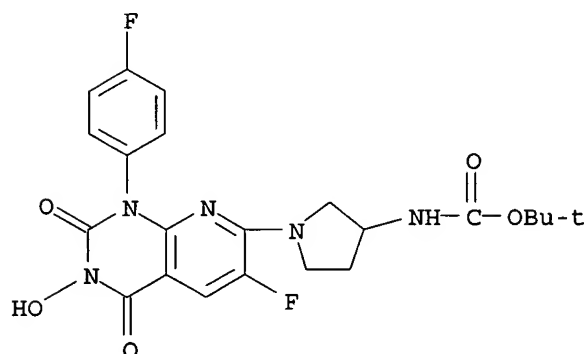
RN 224191-36-0 HCAPLUS

CN Carbamic acid, [(1 α ,5 α ,6 α)-3-[6-fluoro-1-(4-fluorophenyl)-1,2,3,4-tetrahydro-2,4-dioxo-3-(phenylmethoxy)pyrido[2,3-d]pyrimidin-7-yl]-3-azabicyclo[3.1.0]hex-6-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 224191-53-1 HCAPLUS
 CN Carbamic acid, [1-[6-fluoro-1-(4-fluorophenyl)-1,2,3,4-tetrahydro-3-hydroxy-2,4-dioxypyrido[2,3-d]pyrimidin-7-yl]-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IC C07D239-96; C07D403-04; C07D471-06; C07D471-04; A61K031-505
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

IT 224189-26-8P 224189-28-0P 224189-29-1P 224189-30-4P
 224189-31-5P 224189-32-6P 224189-33-7P 224189-34-8P
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 (preparation of 7-substituted 3-hydroxyquinazoline-2,4-diones and related compds. as antibacterial agents)
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224191-53-1P

(preparation of 7-substituted 3-hydroxyquinazoline-2,4-diones and related compds. as antibacterial agents)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L36 ANSWER 22 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:600713 HCAPLUS

DOCUMENT NUMBER: 129:316187

TITLE: Synthesis and Tyrosine Kinase Inhibitory
Activity of a Series of 2-Amino-8H-pyrido[2,3-
d]pyrimidines: Identification of Potent,
Selective Platelet-Derived Growth Factor
Receptor Tyrosine Kinase Inhibitors

AUTHOR(S): Boschelli, Diane H.; Wu, Zhipei; Klutchko,
Sylvester R.; Showalter, H. D. Hollis; Hamby,
James M.; Lu, Gina H.; Major, Terry C.;
Dahring, Tawny K.; Batley, Brian; Panek,
Robert L.; Keiser, Joan; Hartl, Brian G.;
Kraker, Alan J.; Klohs, Wayne D.; Roberts,
Bill J.; Patmore, Sandra; Elliott, William L.;
Steinkampf, Randy; Bradford, Laura A.; Hallak,
Hussein; Doherty, Annette M.

CORPORATE SOURCE: Department of Medicinal Chemistry, Parke-Davis
Pharmaceutical Research Division of
Warner-Lambert Company, Ann Arbor, MI, 48105,
USA

SOURCE: Journal of Medicinal Chemistry (1998
) , 41(22), 4365-4377

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

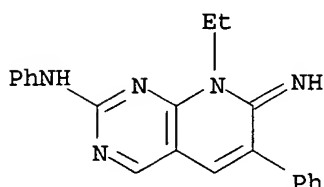
DOCUMENT TYPE: Journal

LANGUAGE: English

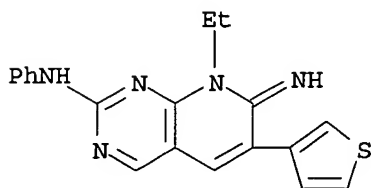
AB Screening of a compound library led to the identification of

2-amino-6-(2,6-dichlorophenyl)-8-methylpyrido[2,3-d]pyrimidine (I) as a inhibitor of the platelet-derived growth factor receptor (PDGFr), fibroblast growth factor receptor (FGFr), and c-src tyrosine kinases (TKs). Replacement of the primary amino group at C-2 of I with a 4-(N,N-diethylaminoethoxy)phenylamino group gave a compound, which had greatly increased activity against all three TKs. In the present work, variation of the aromatic group at C-6 and of the alkyl group at N-8 of the pyrido[2,3-d]pyrimidine core provided several analogs that retained potency, including derivs. that were biased toward inhibition of the TK activity of PDGFr. Analogs of the 4-[(N,N-diethylaminoethoxy)phenylamino]-substituted derivative with a 3-thiophene or an unsubstituted Ph group at C-6 were the most potent inhibitors. One compound, 2-[4-[2-(diethylamino)ethoxy]phenylamino]-8-ethyl-6-phenyl-8H-pyrido[2,3-d]pyrimidin-7-one had IC50 values of 31, 88, and 31 nM against PDGFr, FGFr, and c-src TK activity, resp.,. It was active in a variety of PDGF-dependent cellular assay and blocked the in vivo growth of three PDGF-dependent tumor lines.

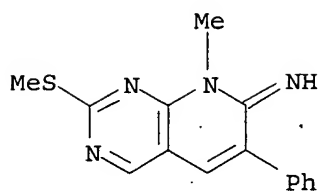
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214983-01-4P 214983-16-1P 214983-17-2P
214983-20-7P 214983-25-2P 214983-26-3P
(preparation and tyrosine kinase inhibitory activity of
aminopyrido[2,3-d]pyrimidines)
RN 185040-16-8 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-2-amine, 8-ethyl-7,8-dihydro-7-imino-N,6-
diphenyl- (9CI) (CA INDEX NAME)



RN 185040-40-8 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-2-amine, 8-ethyl-7,8-dihydro-7-imino-N-
phenyl-6-(3-thienyl)- (9CI) (CA INDEX NAME)

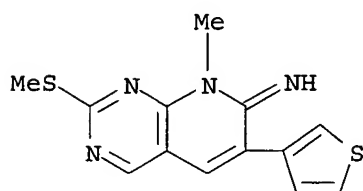


RN 214983-00-3 HCAPLUS
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phenyl- (9CI) (CA INDEX NAME)



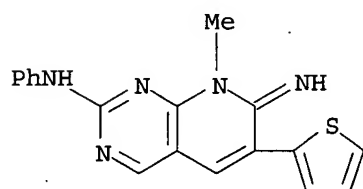
RN 214983-01-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(8H)-imine, 8-methyl-2-(methylthio)-6-(3-thienyl)- (9CI) (CA INDEX NAME)



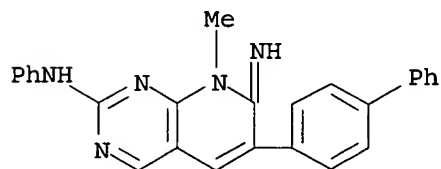
RN 214983-16-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-2-amine, 7,8-dihydro-7-imino-8-methyl-N-phenyl-6-(2-thienyl)- (9CI) (CA INDEX NAME)



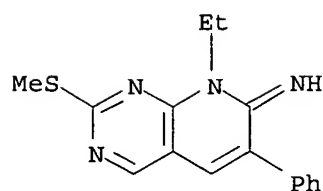
RN 214983-17-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-2-amine, 6-[1,1'-biphenyl]-4-yl-7,8-dihydro-7-imino-8-methyl-N-phenyl- (9CI) (CA INDEX NAME)



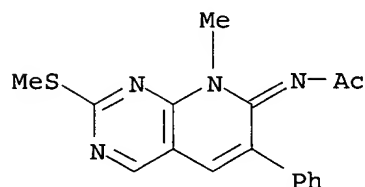
RN 214983-20-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(8H)-imine, 8-ethyl-2-(methylthio)-6-phenyl- (9CI) (CA INDEX NAME)



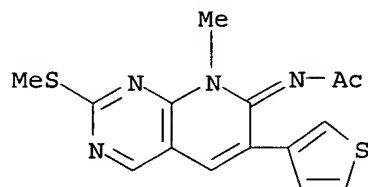
RN 214983-25-2 HCAPLUS

CN Acetamide, N-[8-methyl-2-(methylthio)-6-phenylpyrido[2,3-d]pyrimidin-7(8H)-ylidene]- (9CI) (CA INDEX NAME)



RN 214983-26-3 HCAPLUS

CN Acetamide, N-[8-methyl-2-(methylthio)-6-(3-thienyl)pyrido[2,3-d]pyrimidin-7(8H)-ylidene]- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

IT 185040-03-3P **185040-16-8P** 185040-17-9P 185040-27-1P
 185040-33-9P 185040-36-2P 185040-37-3P 185040-38-4P
 185040-39-5P **185040-40-8P** **214983-00-3P**
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214983-17-2P **214983-20-7P** 214983-21-8P
 214983-22-9P **214983-25-2P** **214983-26-3P**

(preparation and tyrosine kinase inhibitory activity of aminopyrido[2,3-d]pyrimidines)

REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 23 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:202673 HCAPLUS

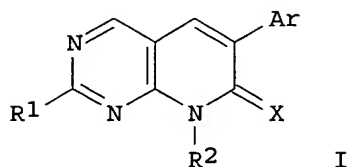
DOCUMENT NUMBER: 128:257440

TITLE: Preparation of pyrido[2,3-d]pyrimidines for inhibiting protein tyrosine kinase mediated cellular proliferation

INVENTOR(S): Blankley, Clifton John; Boschelli, Diane
 Harris; Doherty, Annette Marian; Hamby, James
 Marino; Klutchko, Sylvester; Panek, Robert Lee
 PATENT ASSIGNEE(S): Warner-Lambert Company, USA
 SOURCE: U.S., 39 pp., Cont.-in-part of U.S. 5,620,981.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5733914	A	19980331	US 1996-611279	1996 0403
US 5620981	A	19970415	US 1995-433294	1995 0503
IL 117923	A1	20000601	IL 1996-117923	1996 0416
CA 2214219	AA	19961107	CA 1996-2214219	1996 0426
WO 9634867	A1	19961107	WO 1996-US5819	1996 0426
W: AU, BG, CA, CN, CZ, EE, GE, HU, JP, KR, LT, LV, MX, NO, NZ, PL, RO, SG, SI, SK, UA, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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AU 713727	B2	19991209		
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			<--	
OTHER SOURCE(S):	MARPAT 128:257440			
GI				



AB The title compds. [I; X = NH, N-acyl, O, S; R1 = SOR3, SO2R3; R2, R3 = H, (CH2)_nPh (where Ph = (un)substituted phenyl; n = 0-3), heteroarom., etc.; Ar = (un)substituted Ph, heteroaryl], inhibitors of protein tyrosine kinases, and thus useful in treating cellular proliferation, especially useful in treating cancer, atherosclerosis, restenosis, and psoriasis, were prepared and formulated. Thus, treatment of 2-ethoxyethanol with NaH followed

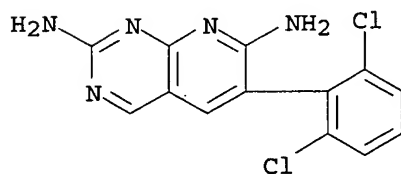
by addition of 2,6-dimethylphenylacetonitrile, and 2-amino-4-methylamino-5-pyrimidinecarboxaldehyde (preparation described) afforded pyrido[2,3-d]pyrimidine I [R1 = NH₂; R2 = Me; X = NH; Ar = 2,6-dimethylphenyl] which showed 42% inhibition of PDGFr-TK at 50 μ M.

IT 26752-70-5P 185039-20-7P 185039-21-8P
 185039-22-9P 185039-29-6P 185039-30-9P
 185039-32-1P 185039-37-6P 185039-74-1P
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 185040-16-8P 185040-18-0P 185040-20-4P
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 205115-78-2P

(preparation of pyrido[2,3-d]pyrimidines for inhibiting protein tyrosine kinase mediated cellular proliferation)

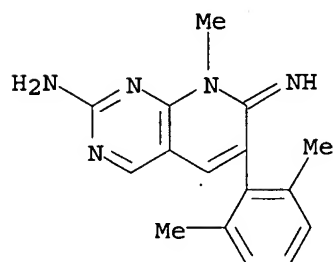
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 (CA INDEX NAME)



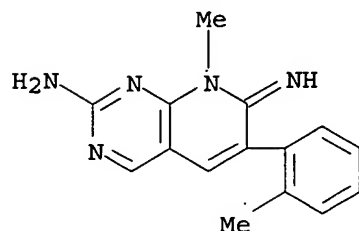
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CN Pyrido[2,3-d]pyrimidin-2-amine, 6-(2,6-dimethylphenyl)-7,8-dihydro-7-imino-8-methyl- (9CI) (CA INDEX NAME)



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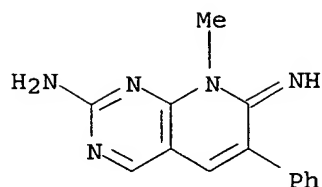
CN Pyrido[2,3-d]pyrimidin-2-amine, 7,8-dihydro-7-imino-8-methyl-6-(2-methylphenyl)- (9CI) (CA INDEX NAME)



RN 185039-22-9 HCAPLUS

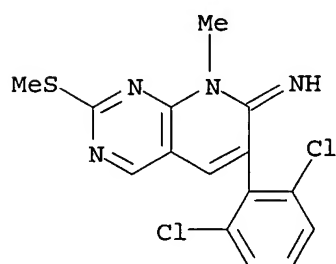
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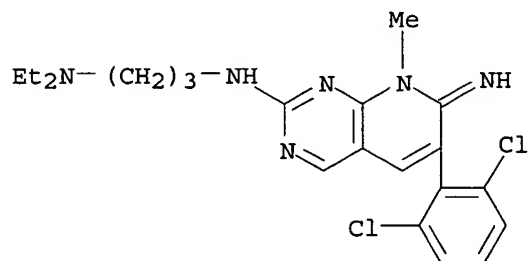
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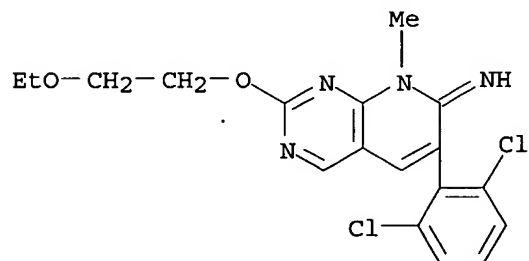
RN 185039-30-9 HCAPLUS

CN 1,3-Propanediamine, N'-[6-(2,6-dichlorophenyl)-7,8-dihydro-7-imino-8-methylpyrido[2,3-d]pyrimidin-2-yl]-N,N-diethyl- (9CI) (CA INDEX NAME)

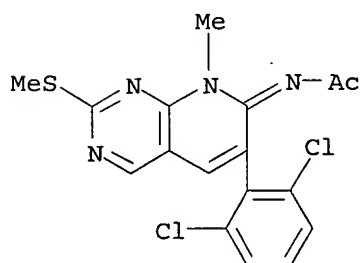


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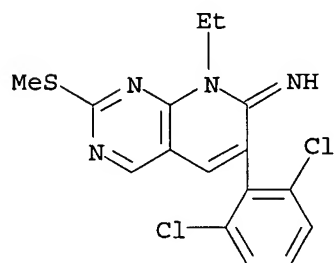
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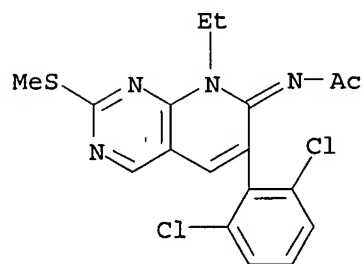
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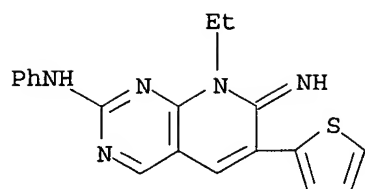
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 CN Pyrido[2,3-d]pyrimidin-7(8H)-imine, 6-(2,6-dichlorophenyl)-8-ethyl-2-(methylthio) - (9CI) (CA INDEX NAME)



RN 185039-75-2 HCAPLUS
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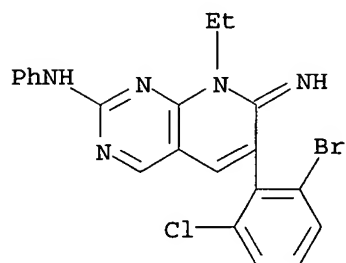


RN 185040-04-4 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-2-amine, 8-ethyl-7,8-dihydro-7-imino-N-phenyl-6-(2-thienyl) - (9CI) (CA INDEX NAME)



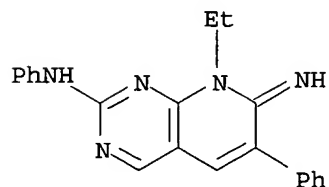
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CN Pyrido[2,3-d]pyrimidin-2-amine, 6-(2-bromo-6-chlorophenyl)-8-ethyl-7,8-dihydro-7-imino-N-phenyl- (9CI) (CA INDEX NAME)



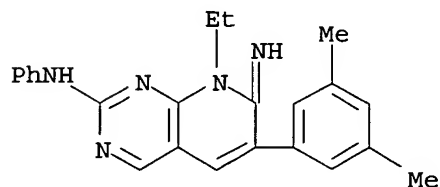
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CN Pyrido[2,3-d]pyrimidin-2-amine, 8-ethyl-7,8-dihydro-7-imino-N,6-diphenyl- (9CI) (CA INDEX NAME)



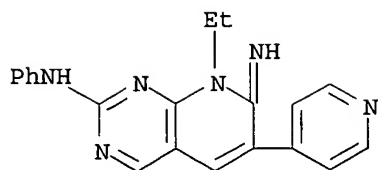
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CN Pyrido[2,3-d]pyrimidin-2-amine, 6-(3,5-dimethylphenyl)-8-ethyl-7,8-dihydro-7-imino-N-phenyl- (9CI) (CA INDEX NAME)



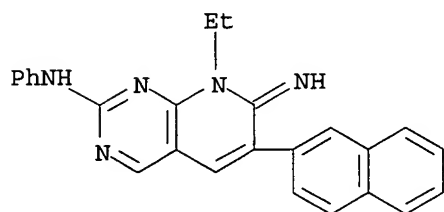
RN 185040-20-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-2-amine, 8-ethyl-7,8-dihydro-7-imino-N-phenyl-6-(4-pyridinyl)- (9CI) (CA INDEX NAME)



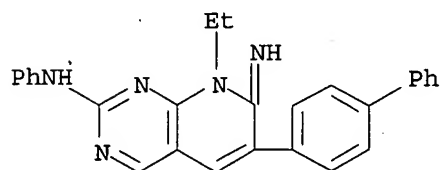
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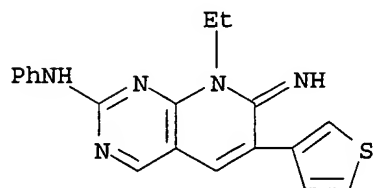
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CN Pyrido[2,3-d]pyrimidin-2-amine, 6-[1,1'-biphenyl]-4-yl-8-ethyl-7,8-dihydro-7-imino-N-phenyl- (9CI) (CA INDEX NAME)



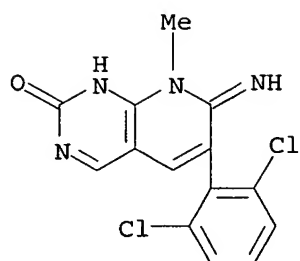
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CN Pyrido[2,3-d]pyrimidin-2-amine, 8-ethyl-7,8-dihydro-7-imino-N-phenyl-6-(3-thienyl)- (9CI) (CA INDEX NAME)



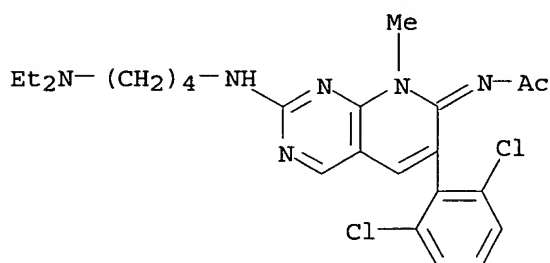
RN 205115-78-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-2(1H)-one, 6-(2,6-dichlorophenyl)-7,8-dihydro-7-imino-8-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IT **185039-38-7P**
 (preparation of pyrido[2,3-d]pyrimidines for inhibiting protein
 tyrosine kinase mediated cellular proliferation)
 RN 185039-38-7 HCAPLUS
 CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-[[4-(
 diethylamino)butyl]amino]-8-methylpyrido[2,3-d]pyrimidin-7(8H)-
 ylidene]- (9CI) (CA INDEX NAME)



IC' ICM A61K031-505
 ICS C07D487-02
 INCL 514258000
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero
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 Section cross-reference(s): 1, 63
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(preparation of pyrido[2,3-d]pyrimidines for inhibiting protein
 tyrosine kinase mediated cellular proliferation)

IT 185039-24-1P 185039-25-2P 185039-26-3P 185039-27-4P
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(preparation of pyrido[2,3-d]pyrimidines for inhibiting protein tyrosine kinase mediated cellular proliferation)

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 24 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:202672 HCAPLUS

DOCUMENT NUMBER: 128:257439

TITLE: Preparation of 6-arylpyrido[2,3-d]pyrimidines and naphthyridines for inhibiting protein tyrosine kinase mediated cellular proliferation

INVENTOR(S): Blankley, Clifton John; Doherty, Annette Marian; Hamby, James Marino; Panek, Robert Lee; Schroeder, Mel Conrad; Showalter, Howard Daniel Hollis; Connolly, Cleo

PATENT ASSIGNEE(S): USA

SOURCE: U.S., 36 pp., Cont.-in-part of U.S. Ser. No. 339,051, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

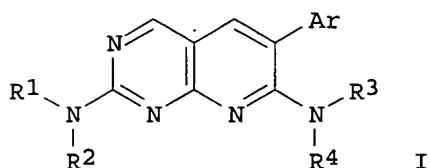
PATENT INFORMATION:

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US 5733913	A	19980331	US 1995-539410	1995 1106
CA 2199964	AA	19960523	CA 1995-2199964	1995 1113
WO 9615128	A2	19960523	WO 1995-US14700	1995 1113

W: AM, AU, BG, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR,

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			WO 1995-US14700	W 1995 1113
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OTHER SOURCE(S):		MARPAT 128:257439		
GI				



AB The title compds. [I; R1, R2, R4 = H, C1-8 alkyl, C2-8 alkenyl, etc.; R3 = C(O)R8, CO2R8, C(S)R8, etc.; R8 = H, C1-8 alkyl, C2-8 alkenyl, etc.; Ar = (un)substituted aromatic or heteroarom. selected

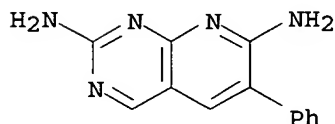
from Ph, imidazolyl, pyrrolyl, etc.], inhibitors of protein tyrosine kinase which are especially useful in treating atherosclerosis, restenosis, psoriasis, as well as bacterial infections, were prepared and formulated. Thus, reaction of 2,7-diamino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine (preparation described) with tert-Bu isocyanate in the presence of NaH in DMF afforded the urea I [R1 = R4 = H; R2 = R3 = C(O)NHtBu; Ar = 2,6-Cl₂C₆H₃] which showed IC₅₀ of 10.2 μ M against PDGF receptor tyrosine kinase.

IT 26752-61-4P 26752-64-7P 26752-70-5P
 26752-80-7P 179343-17-0P 179343-18-1P
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(preparation of 6-arylpyrido[2,3-d]pyrimidines and naphthyridines for inhibiting protein tyrosine kinase mediated cellular proliferation)

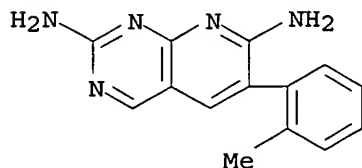
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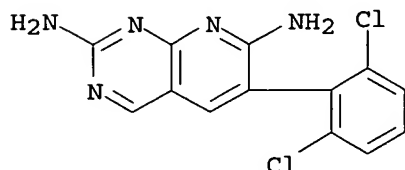
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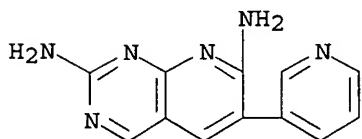


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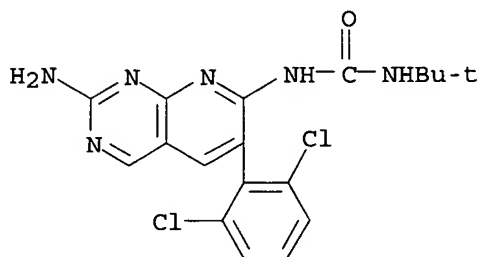
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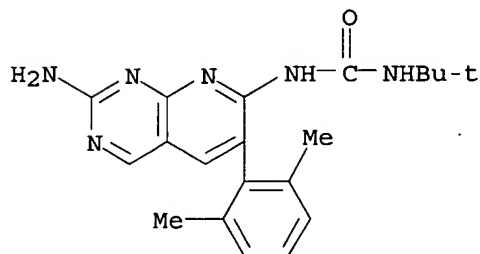
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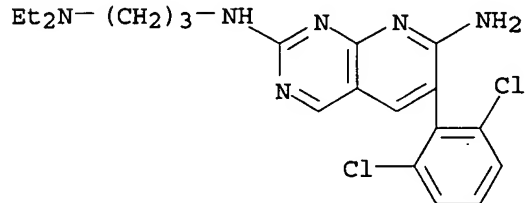
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 CN Urea, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 179343-18-1 HCAPLUS
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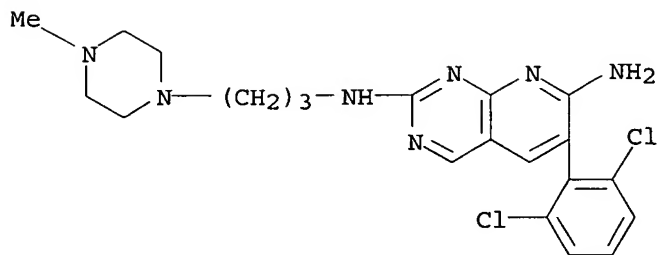


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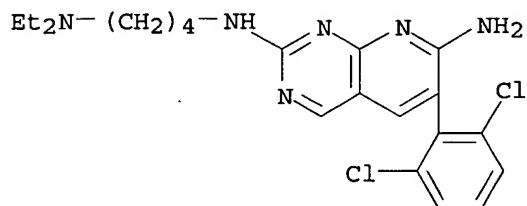
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(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)



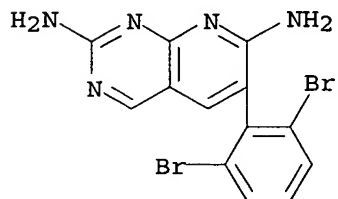
RN 179343-21-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[4-(diethylamino)butyl]- (9CI) (CA INDEX NAME)



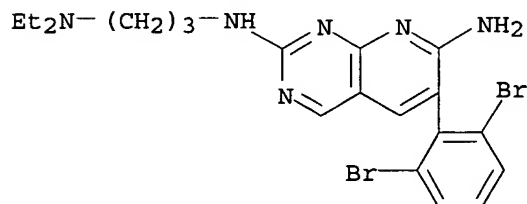
RN 179343-23-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dibromophenyl)-N2-[3-(diethylamino)propyl]- (9CI) (CA INDEX NAME)



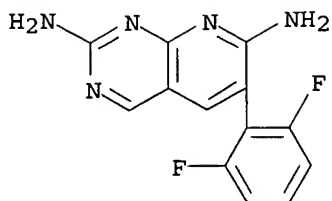
RN 179343-24-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dibromophenyl)-N2-[3-(diethylamino)propyl]- (9CI) (CA INDEX NAME)

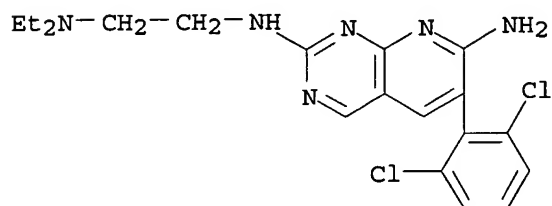


RN 179343-25-0 HCAPLUS

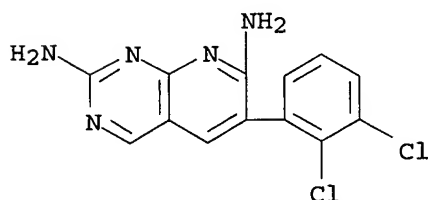
CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-difluorophenyl)- (9CI) (CA INDEX NAME)



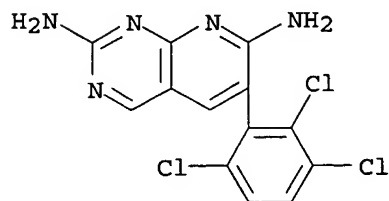
RN 179343-26-1 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[2-(diethylamino)ethyl]- (9CI) (CA INDEX NAME)



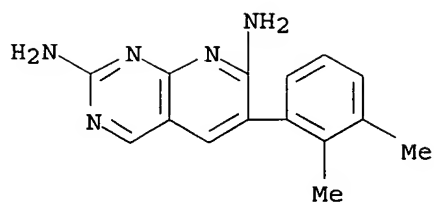
RN 179343-27-2 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,3-dichlorophenyl)- (9CI) (CA INDEX NAME)



RN 179343-28-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,3,6-trichlorophenyl)- (9CI) (CA INDEX NAME)

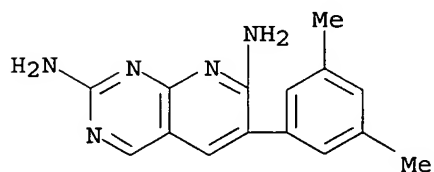


RN 179343-29-4 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,3-dimethylphenyl)- (9CI) (CA INDEX NAME)



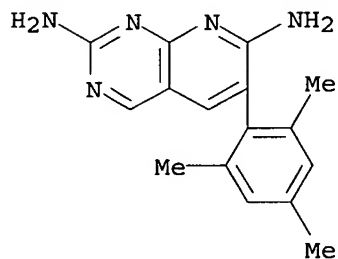
RN 179343-30-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(3,5-dimethylphenyl)- (9CI)
(CA INDEX NAME)



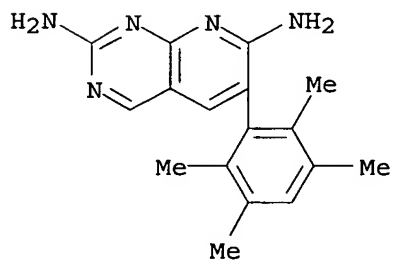
RN 179343-31-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,4,6-trimethylphenyl)-
(9CI) (CA INDEX NAME)



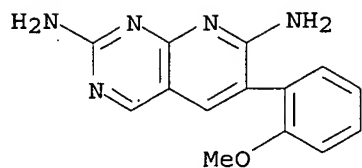
RN 179343-32-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,3,5,6-tetramethylphenyl)-
(9CI) (CA INDEX NAME)



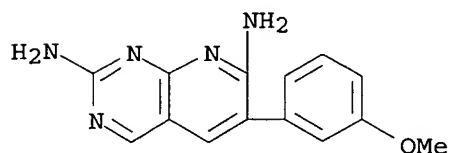
RN 179343-33-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2-methoxyphenyl)- (9CI)
(CA INDEX NAME)



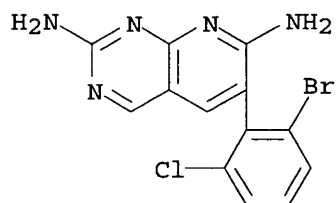
RN 179343-34-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(3-methoxyphenyl)- (9CI)
(CA INDEX NAME)



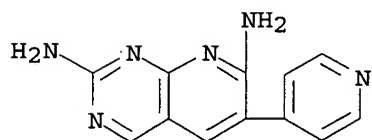
RN 179343-35-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2-bromo-6-chlorophenyl)-
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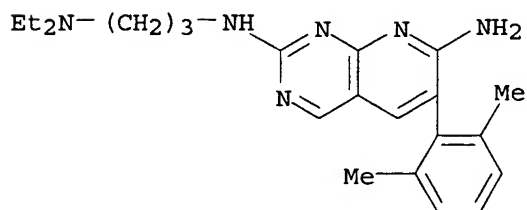
RN 179343-36-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(4-pyridinyl)- (9CI) (CA
INDEX NAME)



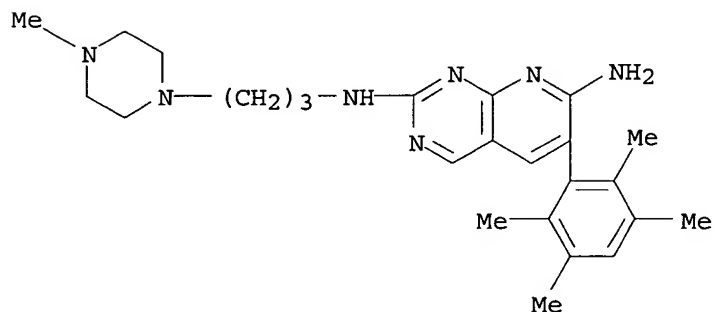
RN 179343-37-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, N2-[3-(diethylamino)propyl]-6-
(2,6-dimethylphenyl)- (9CI) (CA INDEX NAME)



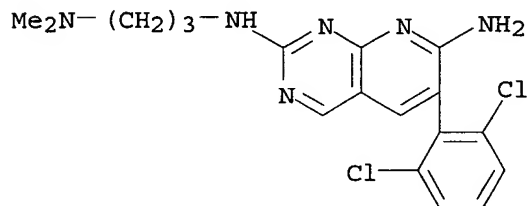
RN 179343-38-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, N2-[3-(4-methyl-1-piperazinyl)propyl]-6-(2,3,5,6-tetramethylphenyl)- (9CI) (CA INDEX NAME)



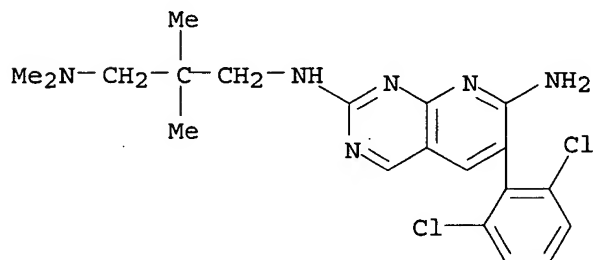
RN 179343-44-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



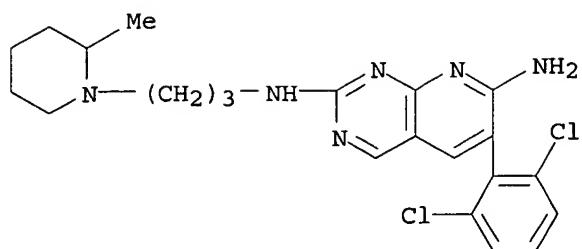
RN 179343-45-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(dimethylamino)-2,2-dimethylpropyl]- (9CI) (CA INDEX NAME)



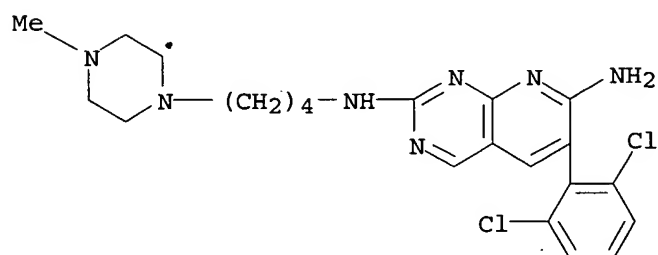
RN 179343-46-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(2-methyl-1-piperidinyl)propyl]- (9CI) (CA INDEX NAME)



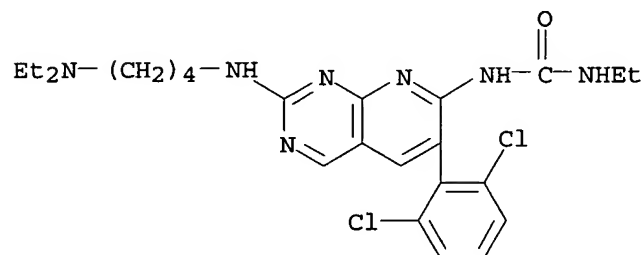
RN 179343-47-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[4-(4-methyl-1-piperazinyl)butyl]- (9CI) (CA INDEX NAME)



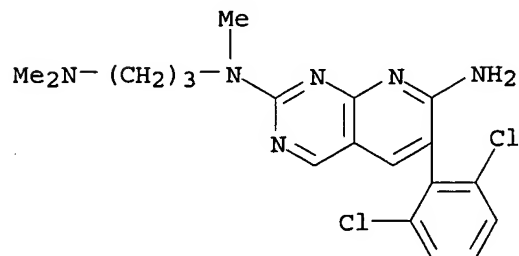
RN 179343-48-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



RN 179343-49-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(dimethylamino)propyl]-N2-methyl- (9CI) (CA INDEX NAME)

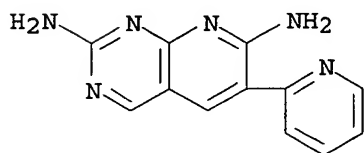


IT 26752-79-4P 84279-29-8P 179342-38-2P
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 179342-51-9P 179342-52-0P 179342-53-1P
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(preparation of 6-arylpyrido[2,3-d]pyrimidines and naphthyridines
 for inhibiting protein tyrosine kinase mediated cellular
 proliferation)

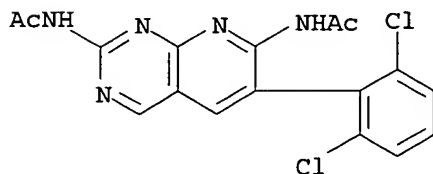
RN 26752-79-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2-pyridinyl)- (9CI) (CA
 INDEX NAME)



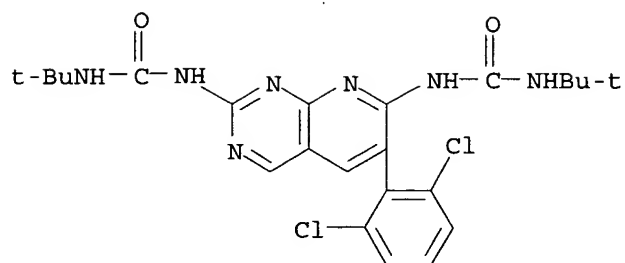
RN 84279-29-8 HCAPLUS

CN Acetamide, N,N'-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine-2,7-
 diyl]bis- (9CI) (CA INDEX NAME)



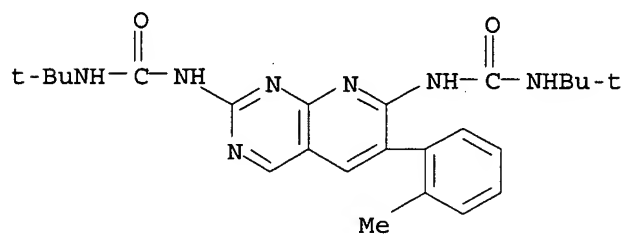
RN 179342-38-2 HCAPLUS

CN Urea, N,N'-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine-2,7-
 diyl]bis[N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



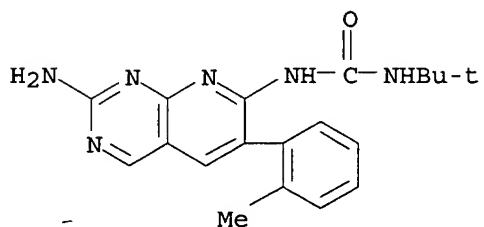
RN 179342-39-3 HCAPLUS

CN Urea, N,N'-[6-(2-methylphenyl)pyrido[2,3-d]pyrimidine-2,7-diyl]bis[N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



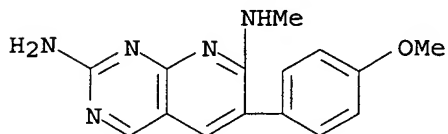
RN 179342-40-6 HCAPLUS

CN Urea, N-[2-amino-6-(2-methylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



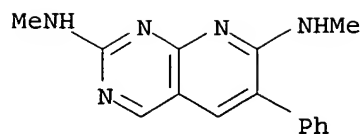
RN 179342-42-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(4-methoxyphenyl)-N7-methyl- (9CI) (CA INDEX NAME)



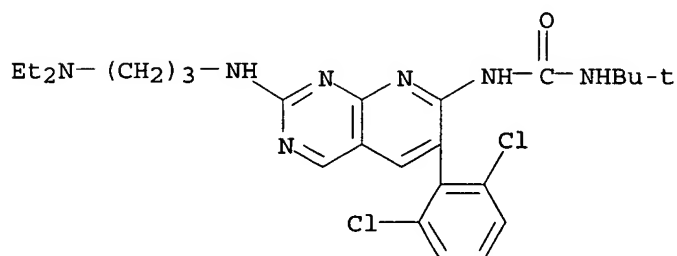
RN 179342-46-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, N,N'-dimethyl-6-phenyl- (9CI) (CA INDEX NAME)



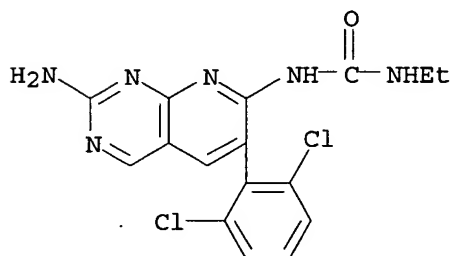
RN 179342-47-3 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-(9CI) (CA INDEX NAME)



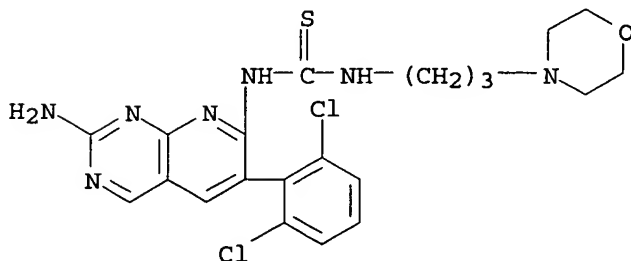
RN 179342-49-5 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl-(9CI) (CA INDEX NAME)



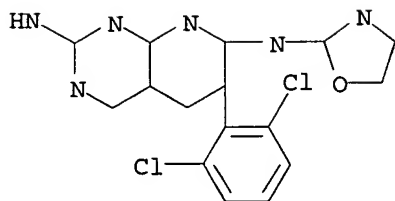
RN 179342-51-9 HCAPLUS

CN Thiourea, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-[3-(4-morpholinyl)propyl]-(9CI) (CA INDEX NAME)



RN 179342-52-0 HCAPLUS

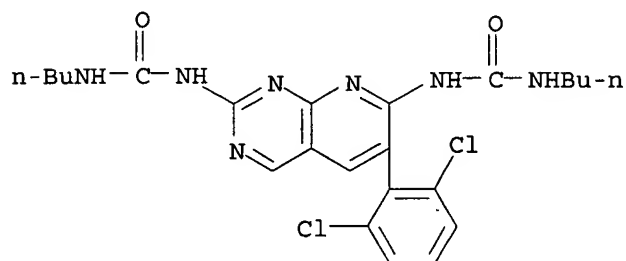
CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N7-(4,5-dihydro-2-oxazolyl)-(9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

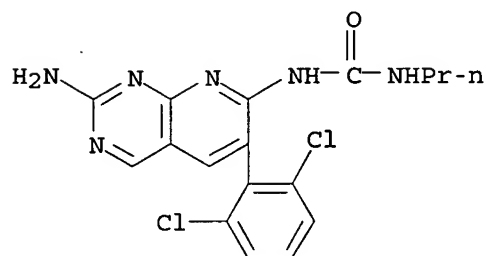
RN 179342-53-1 HCAPLUS

CN Urea, N,N''-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine-2,7-diyl]bis[N'-butyl- (9CI) (CA INDEX NAME)



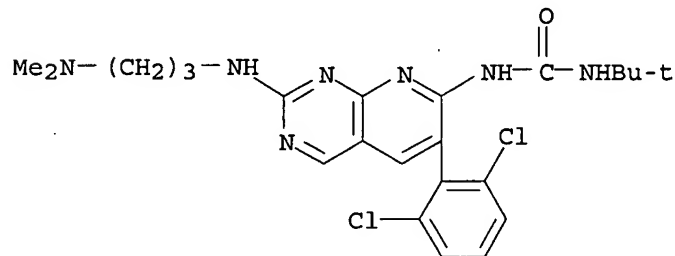
RN 179342-54-2 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-propyl- (9CI) (CA INDEX NAME)



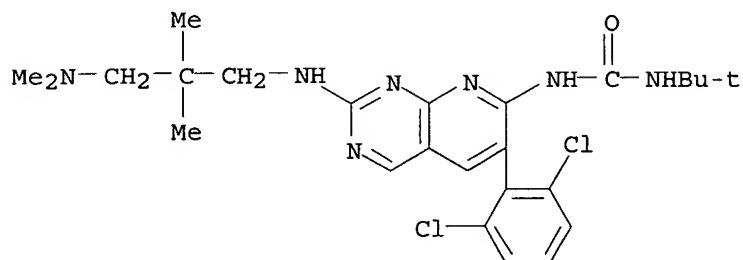
RN 179342-55-3 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(dimethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



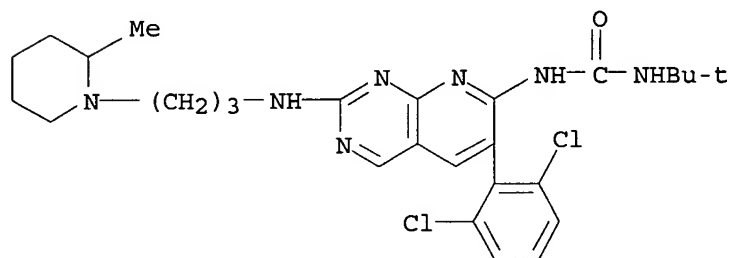
RN 179342-56-4 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(dimethylamino)-2,2-dimethylpropyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



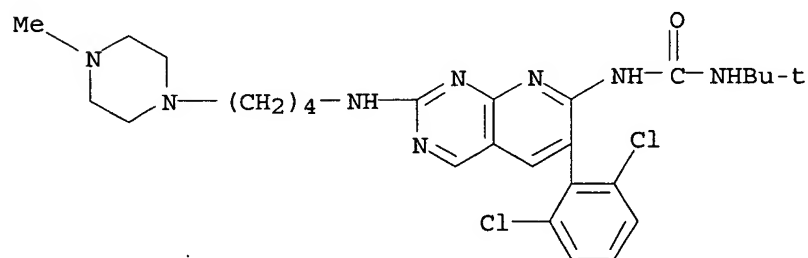
RN 179342-57-5 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(2-methyl-1-piperidinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



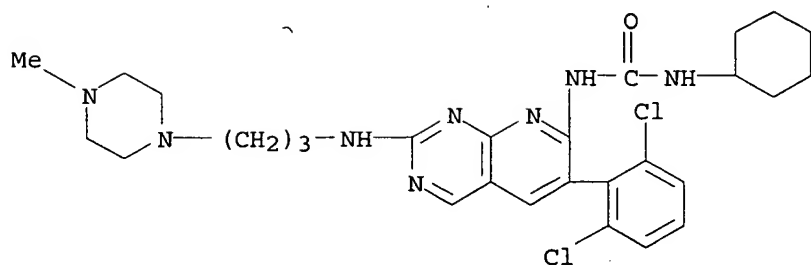
RN 179342-58-6 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(4-methyl-1-piperazinyl)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



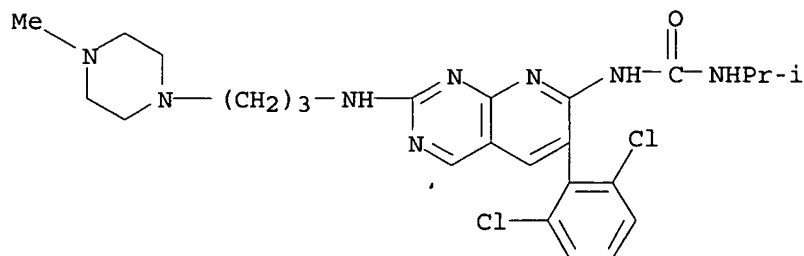
RN 179342-60-0 HCAPLUS

CN Urea, N-cyclohexyl-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



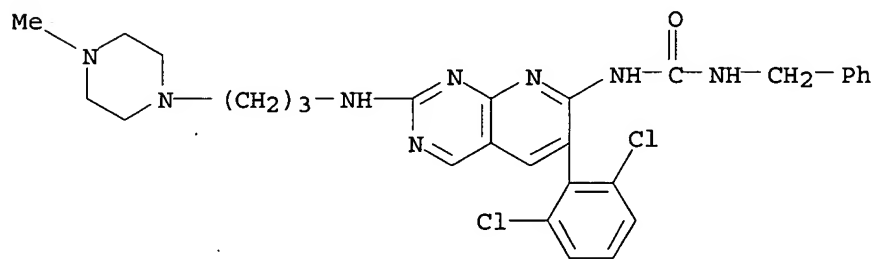
RN 179342-61-1 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)-(9CI) (CA INDEX NAME)



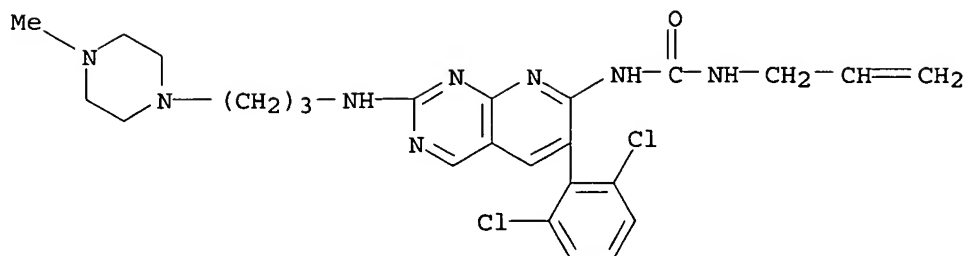
RN 179342-62-2 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(phenylmethyl)-(9CI) (CA INDEX NAME)



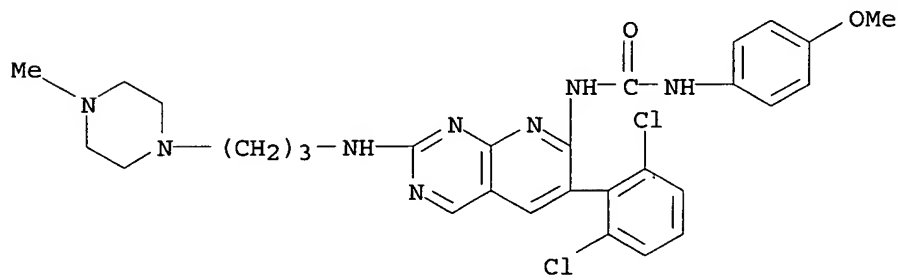
RN 179342-63-3 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-2-propenyl-(9CI) (CA INDEX NAME)



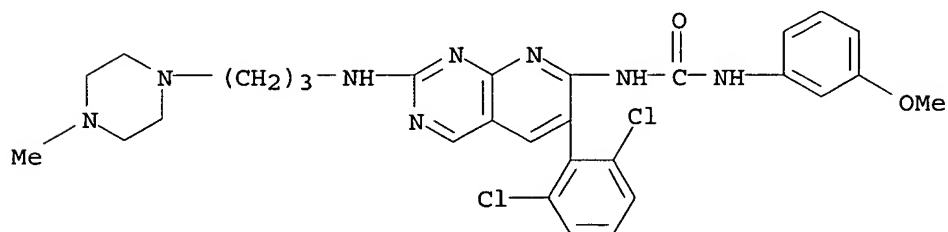
RN 179342-64-4 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



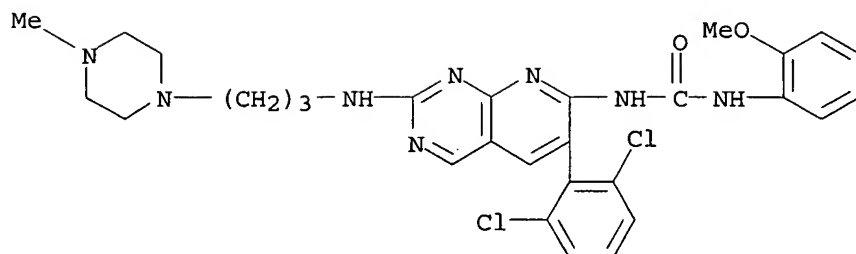
RN 179342-65-5 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)



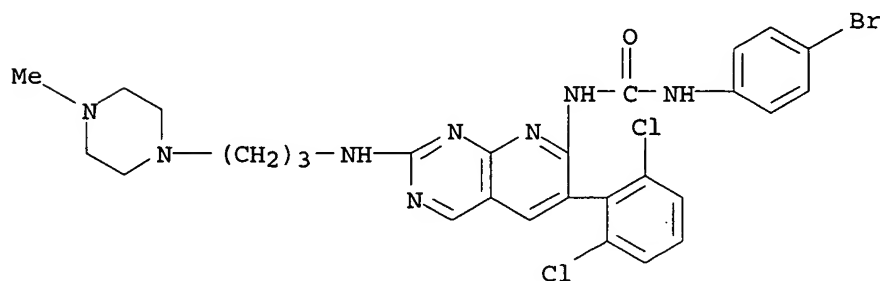
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



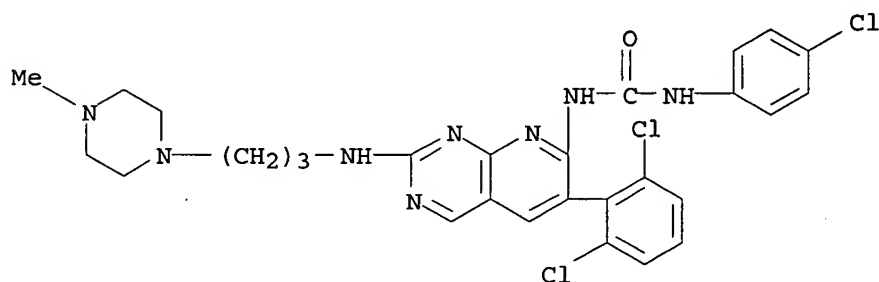
RN 179342-67-7 HCAPLUS

CN Urea, N-(4-bromophenyl)-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-(9CI)
(CA INDEX NAME)



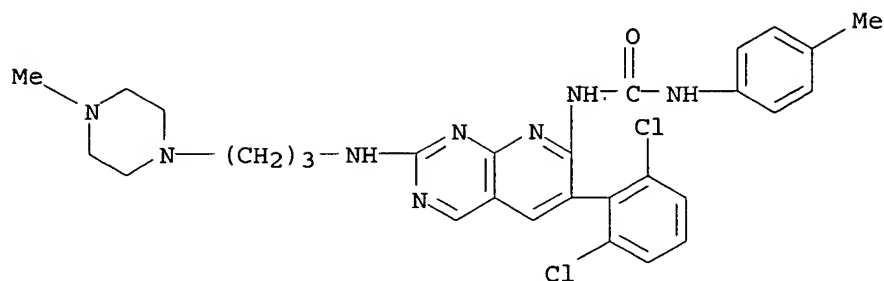
RN 179342-68-8 HCAPLUS

CN Urea, N-(4-chlorophenyl)-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



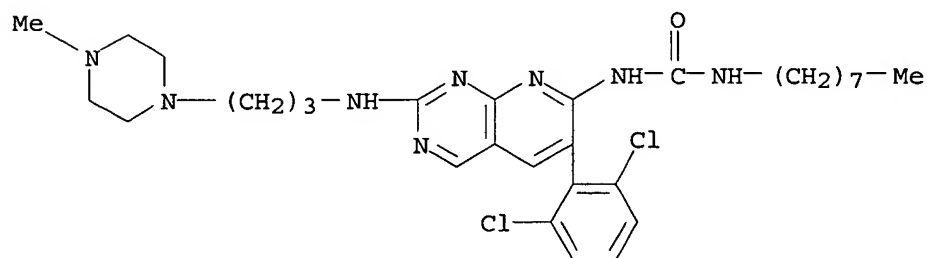
RN 179342-69-9 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(4-methylphenyl)-(9CI) (CA INDEX NAME)



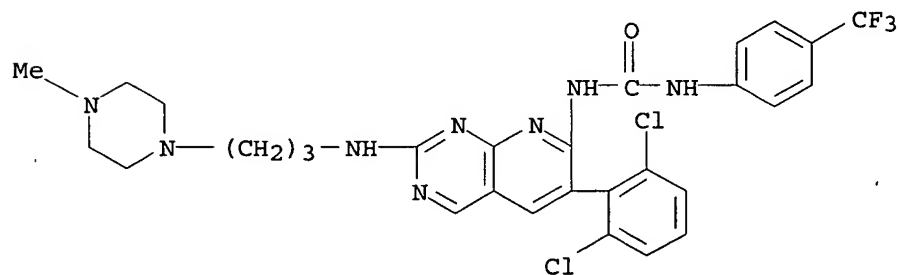
RN 179342-70-2 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-octyl- (9CI) (CA INDEX NAME)



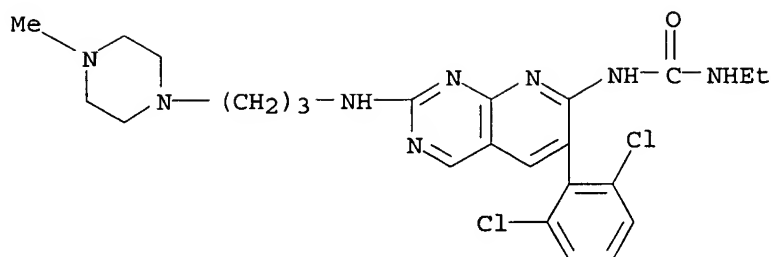
RN 179342-71-3 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



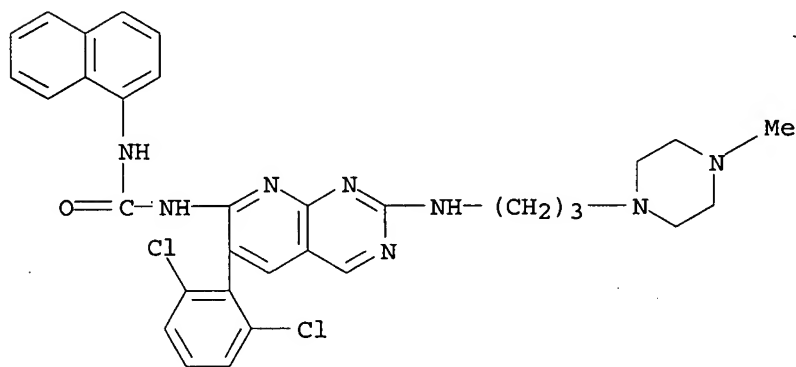
RN 179342-72-4 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



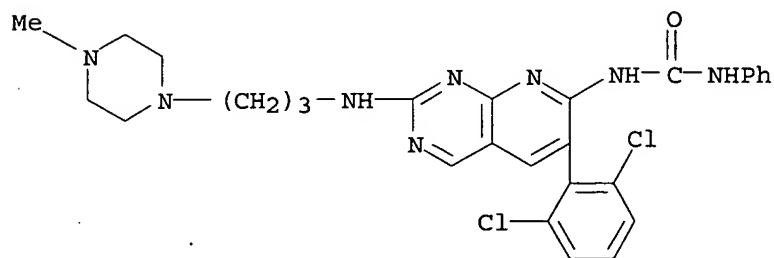
RN 179342-73-5 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



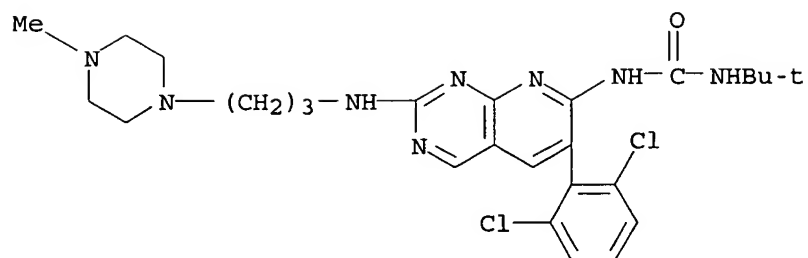
RN 179342-74-6 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



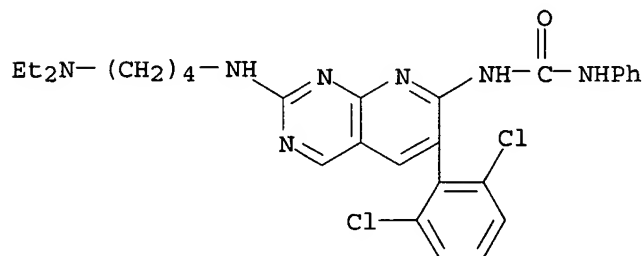
RN 179342-75-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



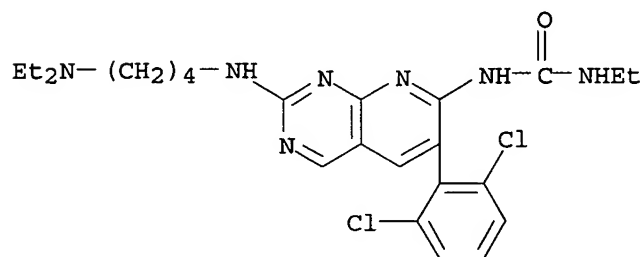
RN 179342-76-8 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 179342-77-9 HCAPLUS

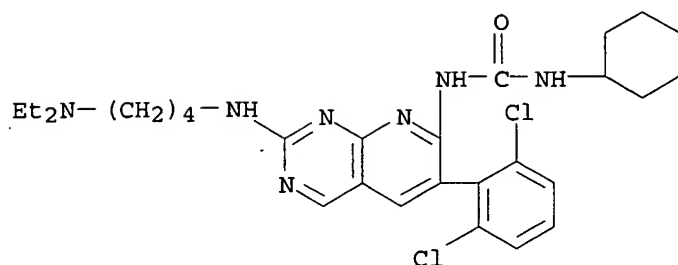
CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl-, hydrochloride (10:11) (9CI) (CA INDEX NAME)



● 11/10 HCl

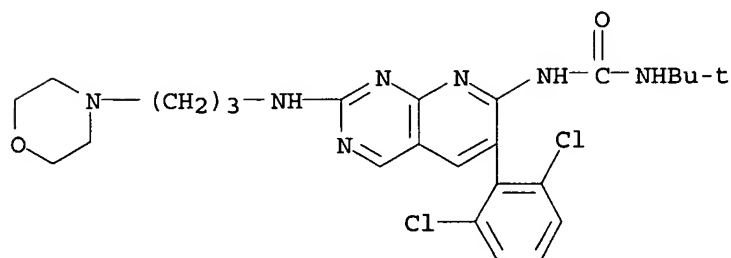
RN 179342-78-0 HCAPLUS

CN Urea, N-cyclohexyl-N'-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



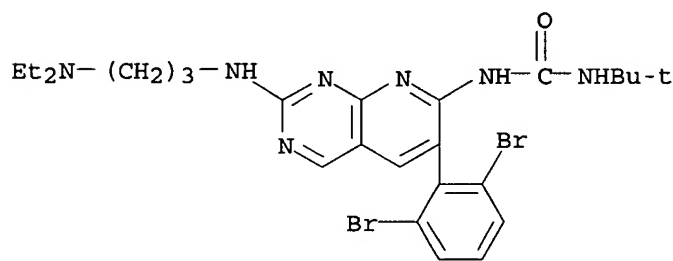
RN 179342-79-1 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-morpholinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



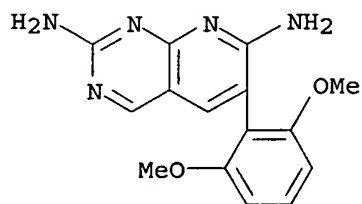
RN 179342-80-4 HCAPLUS

CN Urea, N-[6-(2,6-dibromophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

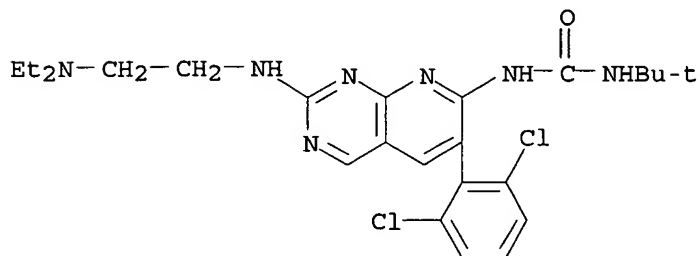


RN 179342-81-5 HCAPLUS

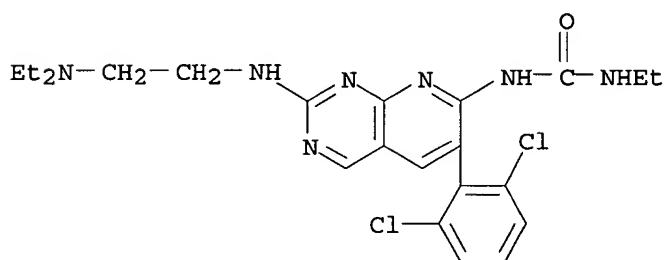
CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



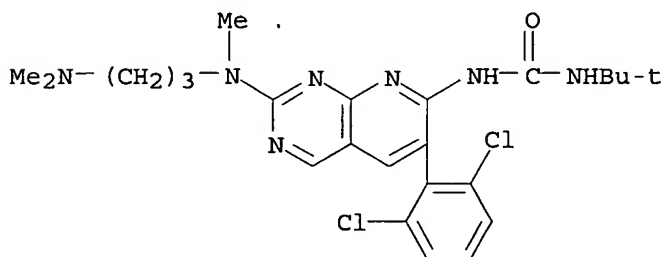
RN 179342-82-6 HCAPLUS
 CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[2-(diethylamino)ethyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



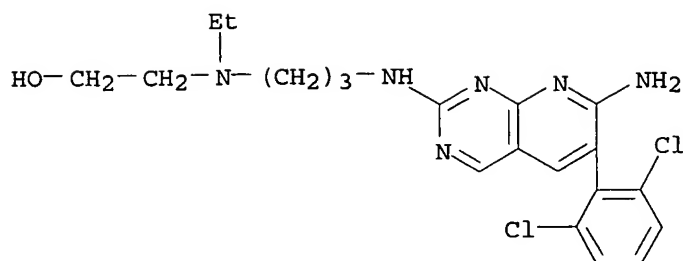
RN 179342-83-7 HCAPLUS
 CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[2-(diethylamino)ethyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



RN 179342-84-8 HCAPLUS
 CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(dimethylamino)propyl]methylamino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

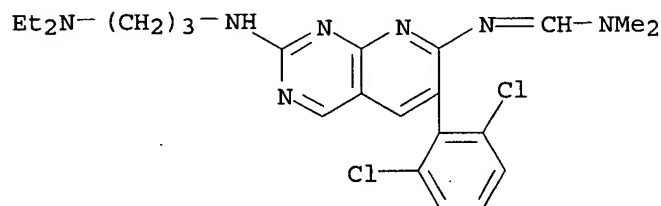


RN 179342-85-9 HCAPLUS
 CN Ethanol, 2-[[3-[[7-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]ethylamino]- (9CI) (CA INDEX NAME)



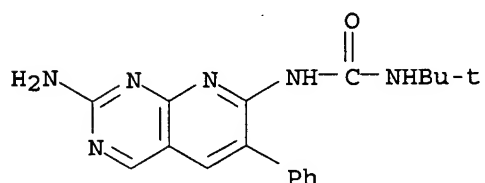
RN 179342-86-0 HCAPLUS

CN Methanimidamide, N'-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



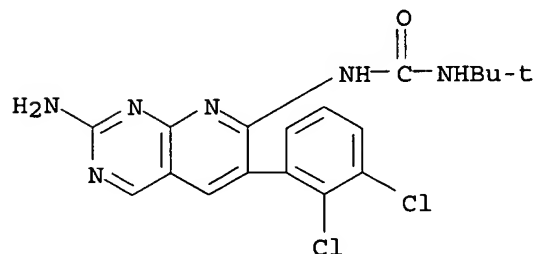
RN 179342-89-3 HCAPLUS

CN Urea, N-(2-amino-6-phenylpyrido[2,3-d]pyrimidin-7-yl)-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



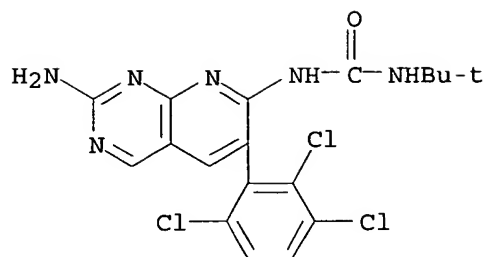
RN 179342-90-6 HCAPLUS

CN Urea, N-[2-amino-6-(2,3-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



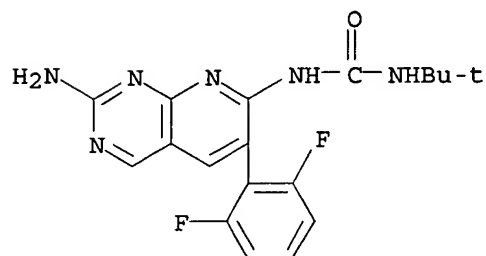
RN 179342-91-7 HCAPLUS

CN Urea, N-[2-amino-6-(2,3,6-trichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



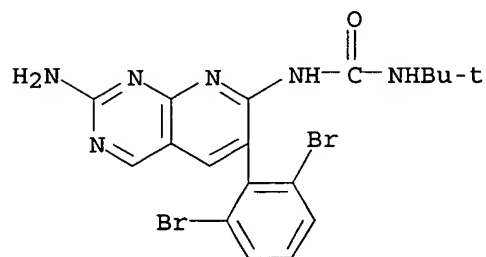
RN 179342-92-8 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-difluorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



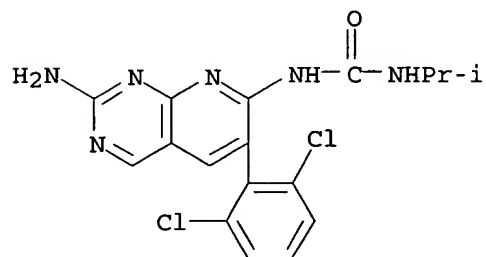
RN 179342-93-9 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-dibromophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

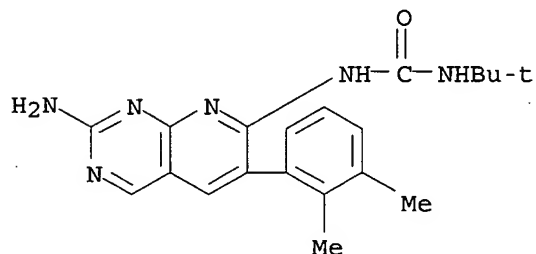


RN 179342-94-0 HCAPLUS

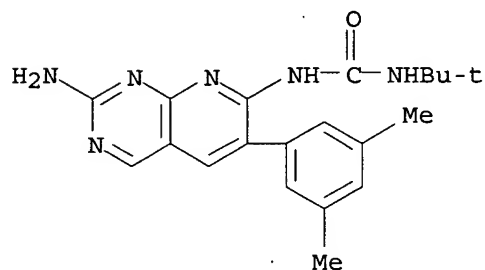
CN Urea, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



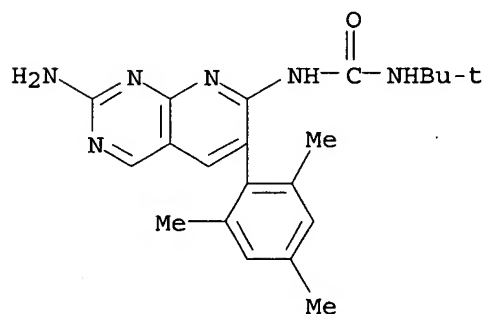
RN 179342-95-1 HCAPLUS
 CN Urea, N-[2-amino-6-(2,3-dimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



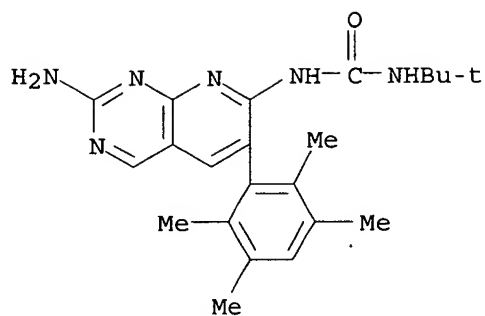
RN 179342-96-2 HCAPLUS
 CN Urea, N-[2-amino-6-(3,5-dimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



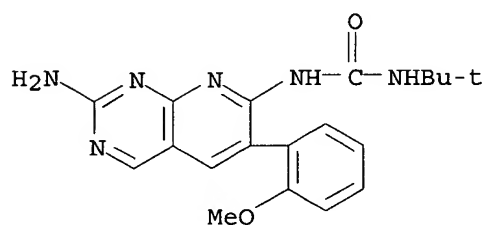
RN 179342-97-3 HCAPLUS
 CN Urea, N-[2-amino-6-(2,4,6-trimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



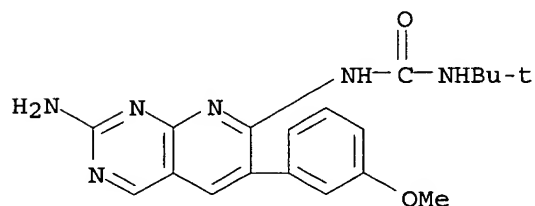
RN 179342-98-4 HCAPLUS
 CN Urea, N-[2-amino-6-(2,3,5,6-tetramethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



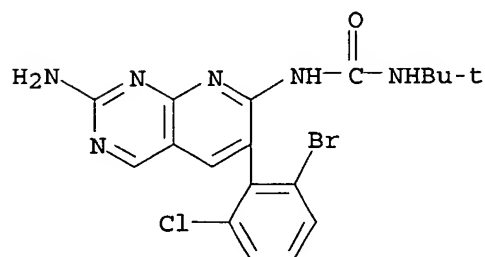
RN 179342-99-5 HCAPLUS
 CN Urea, N-[2-amino-6-(2-methoxyphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 179343-00-1 HCAPLUS
 CN Urea, N-[2-amino-6-(3-methoxyphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

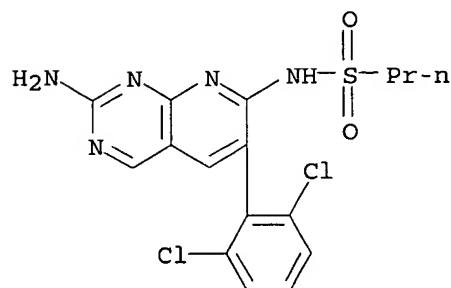


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 CN Urea, N-[2-amino-6-(2-bromo-6-chlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



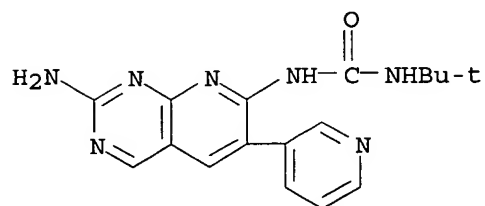
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CN 1-Propanesulfonamide, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



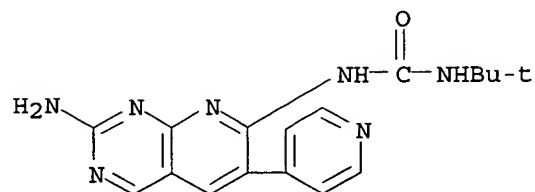
RN 179343-03-4 HCAPLUS

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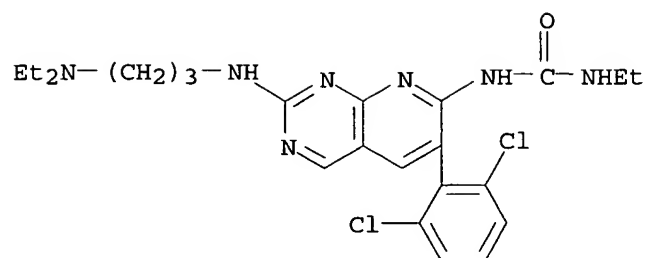
RN 179343-04-5 HCAPLUS

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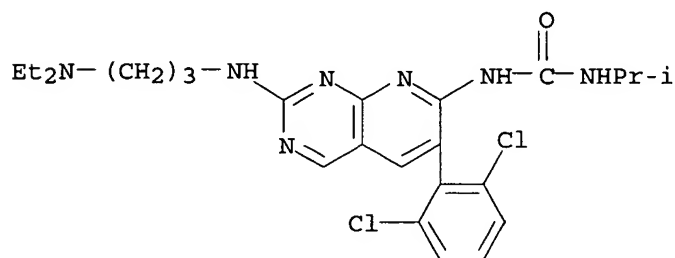
RN 179343-05-6 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



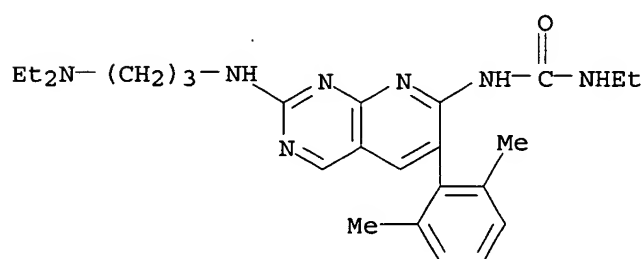
RN 179343-06-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



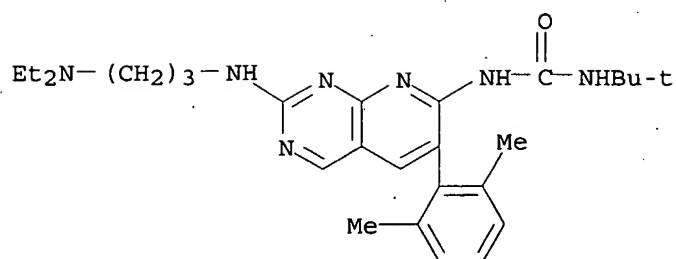
RN 179343-07-8 HCAPLUS

CN Urea, N-[2-[[3-(diethylamino)propyl]amino]-6-(2,6-dimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



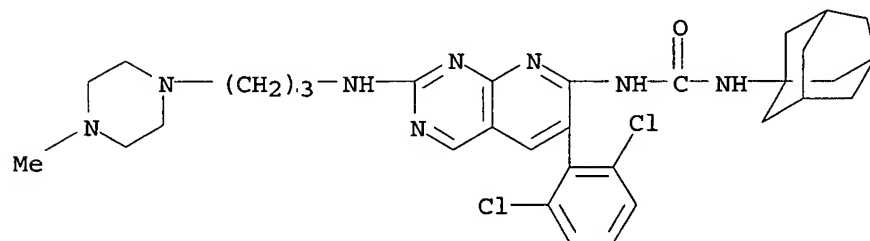
RN 179343-08-9 HCAPLUS

CN Urea, N-[2-[[3-(diethylamino)propyl]amino]-6-(2,6-dimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



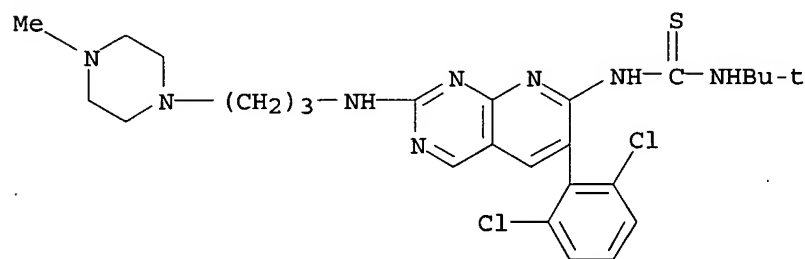
RN 179343-09-0 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-tricyclo[3.3.1.1^{3,7}]dec-1-yl- (9CI) (CA INDEX NAME)



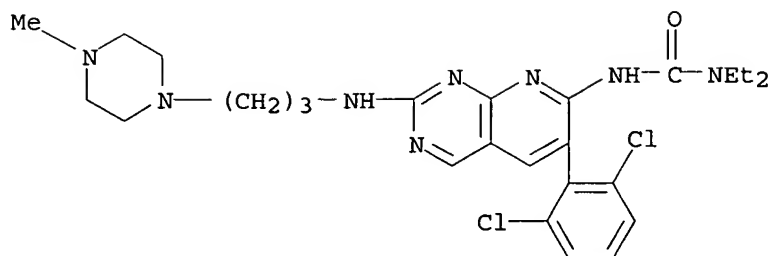
RN 179343-10-3 HCAPLUS

CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



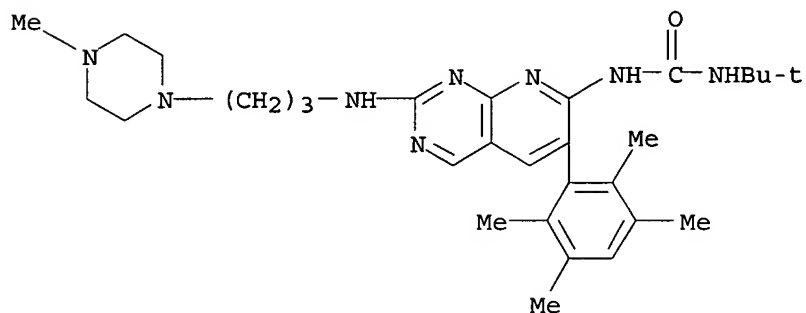
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CN Urea, N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N,N-diethyl- (9CI) (CA INDEX NAME)



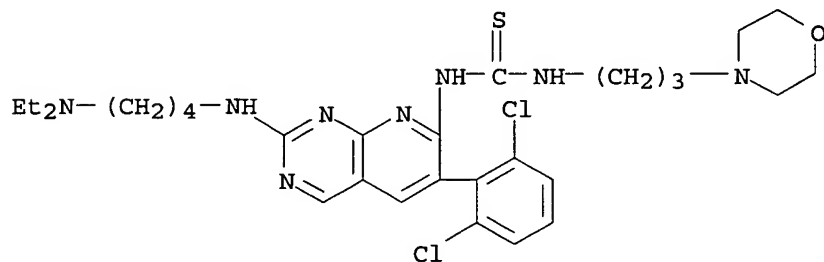
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CN Urea, N-(1,1-dimethylethyl)-N'-[2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-6-(2,3,5,6-tetramethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



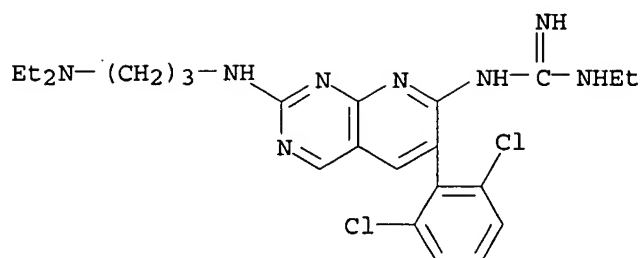
RN 179343-13-6 HCAPLUS

CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-[3-(4-morpholinyl)propyl]- (9CI) (CA INDEX NAME)



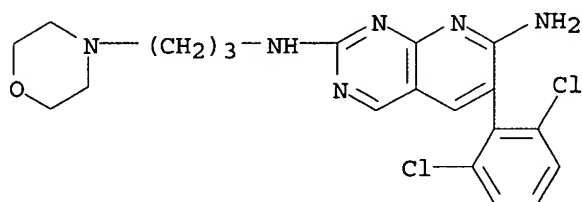
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CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



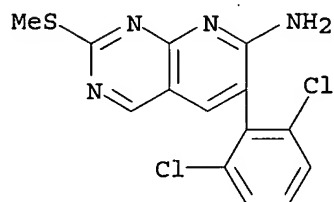
RN 179343-22-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(4-morpholinyl)propyl]- (9CI) (CA INDEX NAME)



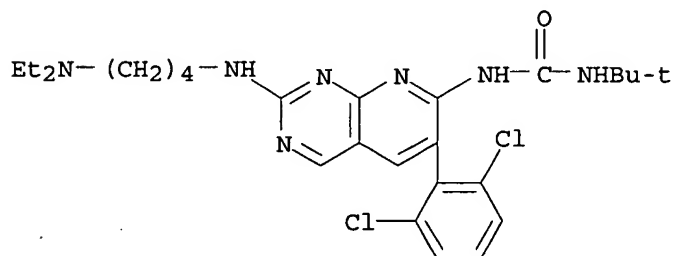
RN 179343-52-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2-(methylthio)- (9CI) (CA INDEX NAME)



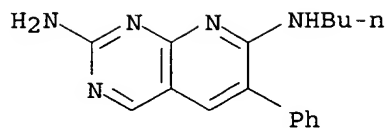
RN 192705-80-9 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



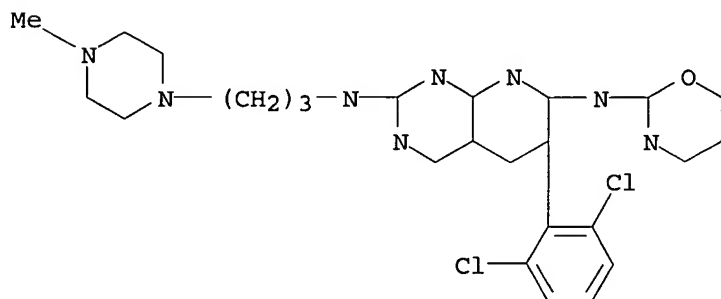
RN 205312-97-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, N7-butyl-6-phenyl- (9CI) (CA INDEX NAME)



RN 205312-98-7 HCAPLUS

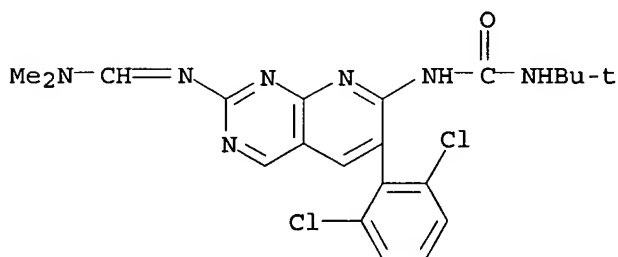
CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N7-(5,6-dihydro-4H-1,3-oxazin-2-yl)-N2-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

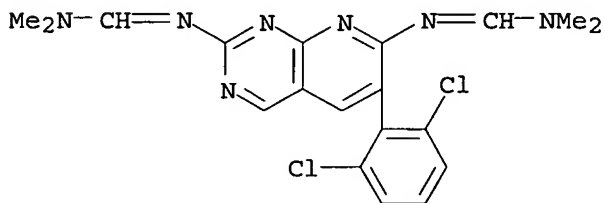
RN 205312-99-8 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[[(dimethylamino)methylene]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 205313-01-5 HCAPLUS

CN Methanimidamide, N',N'''-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine-2,7-diyl]bis[N,N-dimethyl- (9CI) (CA INDEX NAME)]

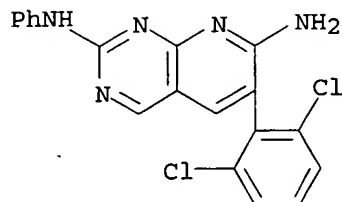


IT 179343-51-2P 205313-02-6P

(preparation of 6-arylpyrido[2,3-d]pyrimidines and naphthyridines for inhibiting protein tyrosine kinase mediated cellular proliferation)

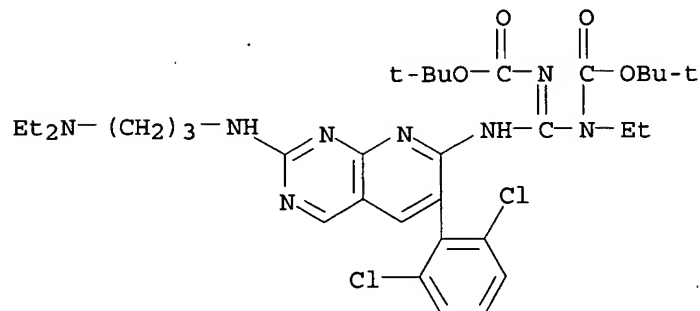
RN 179343-51-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-phenyl- (9CI) (CA INDEX NAME)



RN 205313-02-6 HCAPLUS

CN Carbamic acid, [[[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]amino][[(1,1-dimethylethoxy)carbonyl]imino]methyl]ethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IC ICM C07D471-04

ICS A61K031-505

INCL 514258000

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

IT 26752-61-4P 26752-64-7P 26752-70-5P

26752-80-7P 179343-17-0P 179343-18-1P

179343-19-2P 179343-20-5P 179343-21-6P

179343-23-8P 179343-24-9P 179343-25-0P

179343-26-1P 179343-27-2P 179343-28-3P

179343-29-4P 179343-30-7P 179343-31-8P

179343-32-9P 179343-33-0P 179343-34-1P

179343-35-2P 179343-36-3P 179343-37-4P

179343-38-5P 179343-42-1P 179343-44-3P

179343-45-4P 179343-46-5P 179343-47-6P

179343-48-7P 179343-49-8P

(preparation of 6-arylpyrido[2,3-d]pyrimidines and naphthyridines for inhibiting protein tyrosine kinase mediated cellular proliferation)

IT 26752-79-4P 84279-29-8P 179342-38-2P

179342-39-3P 179342-40-6P 179342-42-8P

179342-43-9P 179342-44-0P 179342-45-1P 179342-46-2P
179342-47-3P 179342-49-5P 179342-51-9P
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179342-62-2P 179342-63-3P 179342-64-4P
179342-65-5P 179342-66-6P 179342-67-7P
179342-68-8P 179342-69-9P 179342-70-2P
179342-71-3P 179342-72-4P 179342-73-5P
179342-74-6P 179342-75-7P 179342-76-8P
179342-77-9P 179342-78-0P 179342-79-1P
179342-80-4P 179342-81-5P 179342-82-6P
179342-83-7P 179342-84-8P 179342-85-9P
179342-86-0P 179342-89-3P 179342-90-6P
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179343-03-4P 179343-04-5P 179343-05-6P
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179343-12-5P 179343-13-6P 179343-16-9P
179343-22-7P 179343-52-3P 192705-80-9P
205312-97-6P 205312-98-7P 205312-99-8P
205313-01-5P

(preparation of 6-arylpyrido[2,3-d]pyrimidines and naphthyridines
for inhibiting protein tyrosine kinase mediated cellular
proliferation)

IT 588-36-3P 770-31-0P 776-53-4P 75776-47-5P 99973-42-9P
179343-39-6P 179343-40-9P 179343-41-0P 179343-43-2P
179343-50-1P 179343-51-2P 205313-02-6P
205313-04-8P

(preparation of 6-arylpyrido[2,3-d]pyrimidines and naphthyridines
for inhibiting protein tyrosine kinase mediated cellular
proliferation)

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L36 ANSWER 25 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:696745 HCAPLUS

DOCUMENT NUMBER: 128:3695

TITLE: Preparation of N-quinazolinylacrylamides and

analogues as tyrosine kinase inhibitors
INVENTOR(S): Bridges, Alexander James; Denny, William
Alexander; Dobrusin, Ellen Myra; Doherty,
Annette Marian; Fry, David W.; Mcnamara,
Dennis Joseph; Showalter, Howard Daniel
Hollis; Smaill, Jeffrey B.; Zhou, Hairong; et
al.

PATENT ASSIGNEE(S): Warner-Lambert Company, USA; Bridges,
Alexander James; Denny, William Alexander;
Dobrusin, Ellen Myra; Doherty, Annette Marian;
Fry, David W.; Mcnamara, Dennis Joseph;
Showalter, Howard Daniel Hollis; Smaill,
Jeffrey B.; Zhou, Hairong

SOURCE: PCT Int. Appl., 193 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9738983	A1	19971023	WO 1997-US5778	1997 0408
W: AL, AU, BA, BB, BG, BR, CA, CN, CZ, EE, GE, GH, HU, IL, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2249446	AA	19971023	CA 1997-2249446	1997 0408
AU 9724463	A1	19971107	AU 1997-24463	1997 0408
AU 725533	B2	20001012		
EP 892789	A1	19990127	EP 1997-920213	1997 0408
EP 892789	B1	20020227		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI				
CN 1218456	A	19990602	CN 1997-194458	1997 0408
CN 1145614	B	20040414		
BR 9708640	A	19990803	BR 1997-8640	1997 0408
JP 2000508657	T2	20000711	JP 1997-537173	1997 0408
JP 3370340	B2	20030127		
AT 213730	E	20020315	AT 1997-920213	1997 0408
PT 892789	T	20020731	PT 1997-920213	1997 0408
ES 2174250	T3	20021101	ES 1997-920213	1997 0408
CN 1495172	A	20040512	CN 2003-10114126	

				1997 0408
SK 284073	B6	20040908	SK 1998-1417	
				1997 0408
CZ 295468	B6	20050817	CZ 1998-3244	
				1997 0408
PL 190489	B1	20051230	PL 1997-329391	
				1997 0408
ZA 9703060	A	19971104	ZA 1997-3060	
				1997 0410
BG 63160	B1	20010531	BG 1998-102811	
				1998 1001
NO 9804718	A	19981209	NO 1998-4718	
				1998 1009
NO 312588	B1	20020603		
KR 2000005364	A	20000125	KR 1998-708086	
				1998 1010
US 6344459	B1	20020205	US 1999-155501	
				1999 0608
HK 1019739	A1	20050218	HK 1999-104872	
				1999 1028
US 6602863	B1	20030805	US 2000-671559	
				2000 0927
US 2003229051	A1	20031211	US 2003-441450	
				2003 0520
PRIORITY APPLN. INFO.:			US 1996-15351P	P
				1996 0412
			WO 1997-US5778	W
				1997 0408
			US 1999-155501	A3
				1999 0608

US 2000-671559

A3

2000

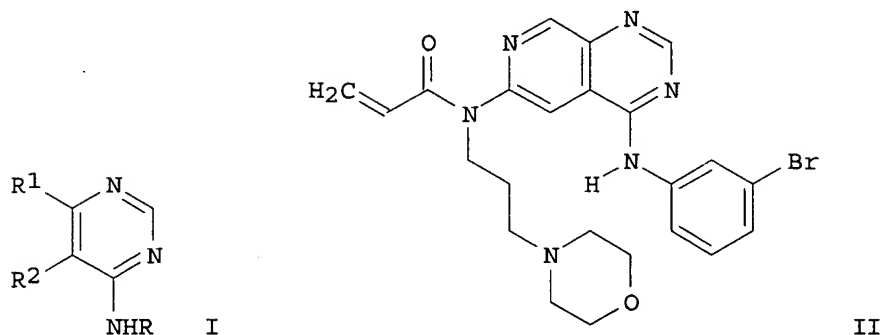
0927

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OTHER SOURCE(S) :

MARPAT 128:3695

GI



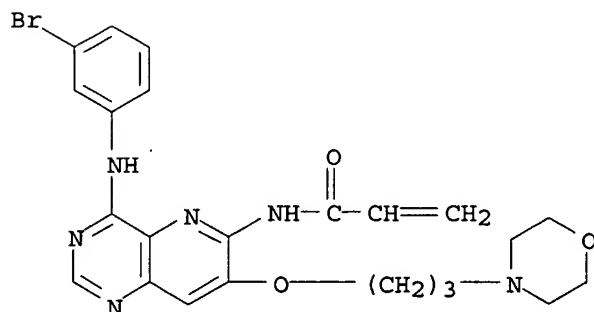
AB Title compds. [I; R = (CHR₆)pR₉; R₁R₂ = CH:CR₇CR₈:CH, CH:CR₇CR₈:N, CH:CR₇N:CH, etc.; R₆ = H or alkyl; 1 of R₇, R₈ = Z₁Z₂R₁₀ and the other = OR₄, SR₄, NHR₃; R₃, R₄ = (un)substituted alkyl, heterocyclylalkyl, etc.; R₉ = (un)substituted Ph; R₁₀ = CR₁₁:CHR₅, C.tplbond.CR₅, CR₁₁:C:CHR₅; R₅ = H, halo, alkyl, Ph, etc.; R₁₁ = H, halo, alkyl; Z₁ = bond, O, (alkyl)imino, CH₂, etc.; Z₂ = CO, SO, P(O)(OH), etc.; p = 0 or 1] were prepared Thus, I (R = C₆H₄Br-3, R₁R₂ = CH:NCR₈:CH, R₈ = F) was condensed with 3-morpholinopropylamine and the product acylated by CH₂:CHCOCl to give title compound II. Data for biol. activity of I were given.

IT 198960-62-2P

(preparation of N-quinazolinylacrylamides and analogs as tyrosine kinase inhibitors)

RN 198960-62-2 HCAPLUS

CN 2-Propenamide, N-[4-[(3-bromophenyl)amino]-7-[3-(4-morpholinyl)propoxy]pyrido[3,2-d]pyrimidin-6-yl]- (9CI) (CA INDEX NAME)



IC ICM C07D239-94

ICS C07D487-04; C07D471-04; C07D495-04

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

IT	194423-07-9P	194423-11-5P	194423-13-7P	194423-15-9P
	198959-82-9P	198959-83-0P	198959-84-1P	198959-86-3P
	198959-87-4P	198959-88-5P	198959-89-6P	198959-91-0P
	198959-92-1P	198959-93-2P	198959-94-3P	198959-95-4P
	198959-96-5P	198959-97-6P	198959-98-7P	198959-99-8P
	198960-00-8P	198960-01-9P	198960-02-0P	198960-04-2P
	198960-05-3P	198960-06-4P	198960-07-5P	198960-08-6P
	198960-09-7P	198960-10-0P	198960-11-1P	198960-12-2P
	198960-13-3P	198960-14-4P	198960-15-5P	198960-16-6P
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	198961-30-7P	198961-31-8P	198961-33-0P	198961-34-1P
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	198961-39-6P	198961-40-9P	198961-41-0P	198961-42-1P
	198961-43-2P	198961-44-3P	198961-45-4P	198961-46-5P
	198961-47-6P	198961-48-7P	198961-50-1P	198961-52-3P
	198961-54-5P	198961-55-6P	198961-56-7P	198961-57-8P
	198961-58-9P	198961-59-0P	198961-60-3P	198961-61-4P
	198961-62-5P	198961-63-6P	198961-64-7P	198961-65-8P
	198961-66-9P	198961-67-0P	198961-68-1P	198961-69-2P
	198961-70-5P	198961-71-6P	198961-72-7P	198961-73-8P

(preparation of N-quinazolinylacrylamides and analogs as tyrosine kinase inhibitors)

L36 ANSWER 26 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:92101 HCAPLUS

DOCUMENT NUMBER: 126:186045

TITLE: Synthesis of pyridopyrimidines and quinolinopyrimidines

AUTHOR(S): Assy, M. G.; El-Kafrawy, M.; Ghareeb, M. O.

CORPORATE SOURCE: Chemistry Department, Faculty of Science, Zagazig University, Zagazig, Egypt

SOURCE: Journal of the Indian Chemical Society (1996), 73(11), 623-624

CODEN: JICSAH; ISSN: 0019-4522

PUBLISHER: Indian Chemical Society

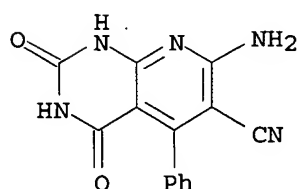
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Reaction of uracil with arylidenemalononitriles in the presence of piperidine afforded 2-amino-4-aryl-5,7-dioxypyrido[2,3-d]pyrimidine-3-carbonitriles, which, with benzoyl isothiocyanate, gave 1-amino-10-aryl-2-benzoyl-3-thioxopyrido[2,3-d]dipyrimidine-7,9-diones. Hexahydroquinolino[2,3-d]pyrimidines were similarly prepared. The title compds. showed moderate activity against *Aspergillus niger*.

IT 187398-60-3P 187398-61-4P 187398-62-5P
(preparation of fungicidal pyridopyrimidines and quinolinopyrimidines)

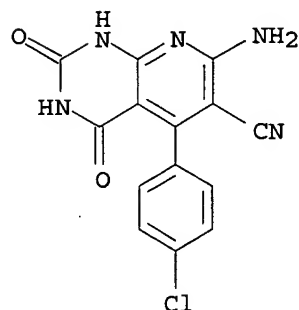
RN 187398-60-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1,2,3,4-tetrahydro-2,4-dioxo-5-phenyl- (9CI) (CA INDEX NAME)



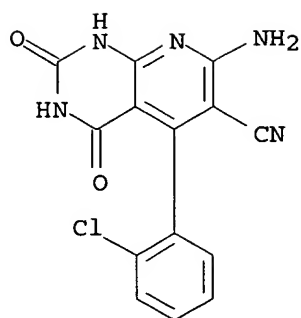
RN 187398-61-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(4-chlorophenyl)-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 187398-62-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-5-(2-chlorophenyl)-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

ST **fungicide** pyridopyrimidine quinolinopyrimidine prepn

IT **Fungicides**

(pyridopyrimidines and quinolinopyrimidines)

IT 187398-60-3P 187398-61-4P 187398-62-5P

187398-70-5P 187398-71-6P 187398-72-7P 187398-73-8P

(preparation of **fungicidal** pyridopyrimidines and quinolinopyrimidines)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 27 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:26258 HCAPLUS

DOCUMENT NUMBER: 126:59965

TITLE: Preparation of pyrido[2,3-d]pyrimidines as protein tyrosine kinase mediated cell proliferation inhibitors

INVENTOR(S): Blankley, Clifton John; Boschelli, Diane Harris; Doherty, Annette Marian; Hamby, James Marino; Klutchko, Sylvester; Panek, Robert Lee

PATENT ASSIGNEE(S): Warner-Lambert Company, USA

SOURCE: PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9634867	A1	19961107	WO 1996-US5819	1996 0426

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RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

US 5620981 A 19970415 US 1995-433294

1995 0503

US 5733914 A 19980331 US 1996-611279
1996
0403

AU 9655769 A1 19961121 AU 1996-55769
1996
0426

AU 713727 B2 19991209
EP 823908 A1 19980218 EP 1996-913175
1996
0426

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT, IE, SI, LT, LV, FI
JP 11504922 T2 19990511 JP 1996-533372
1996
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NZ 307021 A 20010427 NZ 1996-307021
1996
0426

EE 3770 B1 20020617 EE 1997-274
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PL 184093 B1 20020830 PL 1996-323089
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SK 283952 B6 20040608 SK 1997-1410
1996
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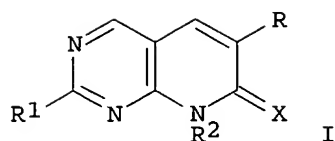
NO 9705033 A 19971031 NO 1997-5033
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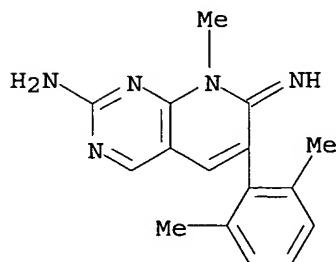
US 1996-611279 A
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WO 1996-US5819 W
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0426

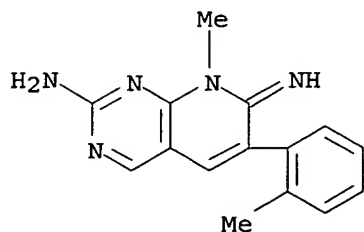
OTHER SOURCE(S): MARPAT 126:59965
GI



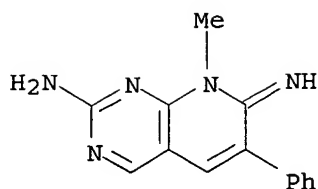
- AB Title compds. [I; R = (un)substituted Ph or heteroaryl; R1 = NR3R4, SO0-2R3, OR3; R2-R4 = H, alkyl, (CH2)0-3Ph, heteroaryl, etc.; R4 may addnl. = COR3, CO2R3, SO2R3, etc.; NR3R4 = atoms to form a ring; X = O, S, (acyl)imino] were pred. Thus, EtOCH:C(CN)CO2Et was cyclocondensed with MeSC(:NH)NH2 and the product converted in 5 steps to 2-amino-4-methylamino-5-pyrimidinecarboxaldehyde which was cyclocondensed with 2,6-Me2C6H3CH2CN to give I (R = 2,6-Me2C6H3, R1 = NH2, R2 = Me, X = NH). Data for biol. activity of I were given.
- IT 185039-20-7P 185039-21-8P 185039-22-9P
 185039-29-6P 185039-30-9P 185039-32-1P
 185039-33-2P 185039-37-6P 185039-38-7P
 185039-74-1P 185039-75-2P 185040-04-4P
 185040-06-6P 185040-16-8P 185040-18-0P
 185040-20-4P 185040-22-6P 185040-24-8P
 (preparation of pyrido[2,3-d]pyrimidines as protein tyrosine kinase mediated cell proliferation inhibitors)
- RN 185039-20-7 HCAPLUS
- CN Pyrido[2,3-d]pyrimidin-2-amine, 6-(2,6-dimethylphenyl)-7,8-dihydro-7-imino-8-methyl- (9CI) (CA INDEX NAME)



- RN 185039-21-8 HCAPLUS
- CN Pyrido[2,3-d]pyrimidin-2-amine, 7,8-dihydro-7-imino-8-methyl-6-(2-methylphenyl)- (9CI) (CA INDEX NAME)

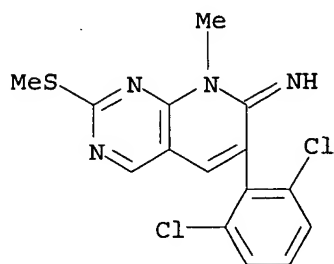


- RN 185039-22-9 HCAPLUS
- CN Pyrido[2,3-d]pyrimidin-2-amine, 7,8-dihydro-7-imino-8-methyl-6-phenyl- (9CI) (CA INDEX NAME)



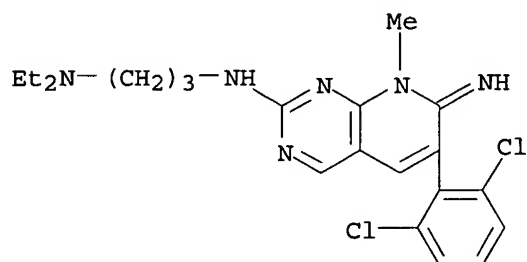
RN 185039-29-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7(8H)-imine, 6-(2,6-dichlorophenyl)-8-methyl-2-(methylthio)- (9CI) (CA INDEX NAME)



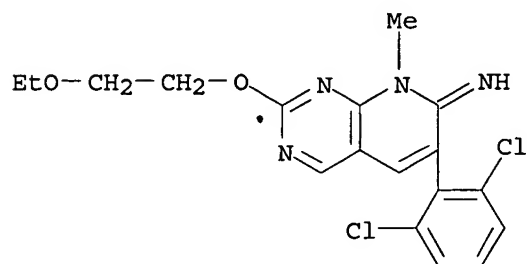
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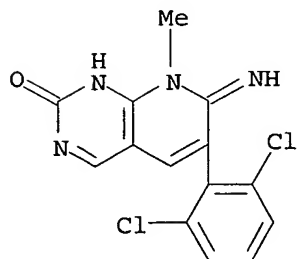
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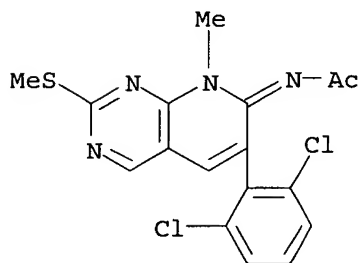
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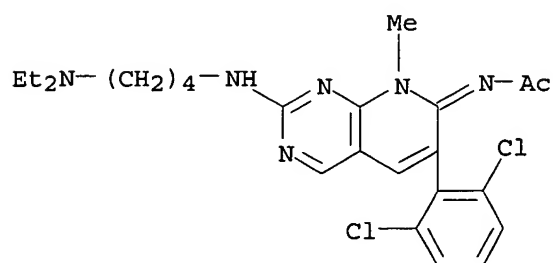
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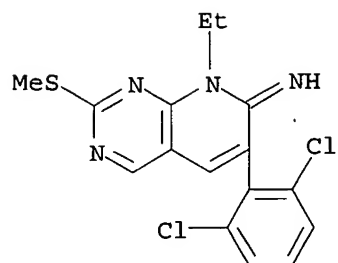
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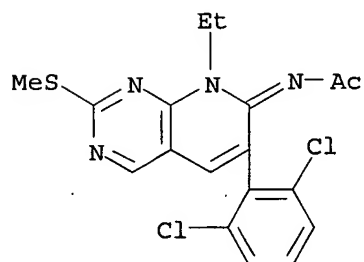
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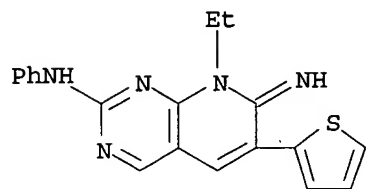
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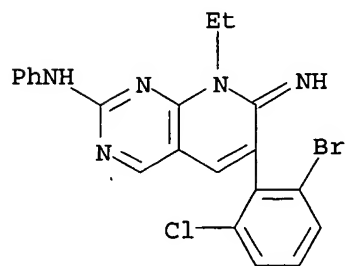
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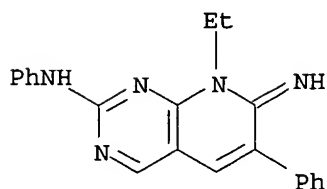
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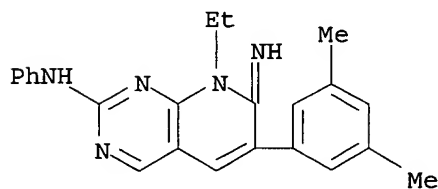


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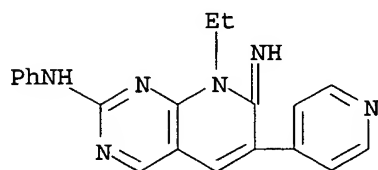
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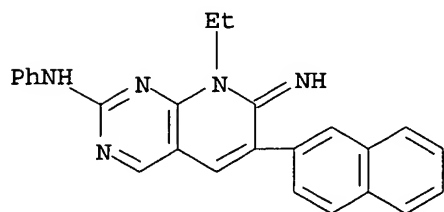
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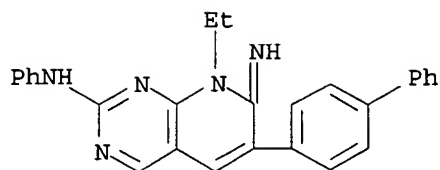
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RN 185040-24-8 HCAPLUS
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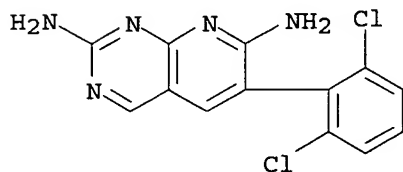


IT 26752-70-5P 185040-40-8P

(preparation of pyrido[2,3-d]pyrimidines as protein tyrosine kinase mediated cell proliferation inhibitors)

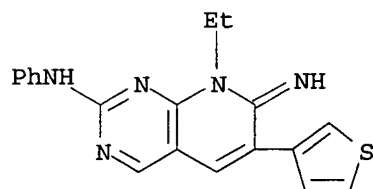
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(CA INDEX NAME)



RN 185040-40-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-2-amine, 8-ethyl-7,8-dihydro-7-imino-N-phenyl-6-(3-thienyl)- (9CI) (CA INDEX NAME)



IC ICM C07D471-04

ICS A61K031-505

ICI C07D471-04, C07D239-00, C07D221-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

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(preparation of pyrido[2,3-d]pyrimidines as protein tyrosine kinase mediated cell proliferation inhibitors)

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(preparation of pyrido[2,3-d]pyrimidines as protein tyrosine kinase mediated cell proliferation inhibitors)

L36 ANSWER 28 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:467130 HCAPLUS

DOCUMENT NUMBER: 125:114688

TITLE: Preparation of 6-aryl pyrido[2,3-d]pyrimidines and naphthyridines for inhibiting protein tyrosine kinase-mediated cellular proliferation

INVENTOR(S): Blankley, Clifton John; Doherty, Annette Marian; Hamby, James Marino; Panek, Robert Lee; Schroeder, Mel Conrad; Showalter, Howard Daniel Hollis; Connolly, Cleo

PATENT ASSIGNEE(S): Warner-Lambert Company, USA

SOURCE: PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9615128	A2	19960523	WO 1995-US14700	1995 1113

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RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

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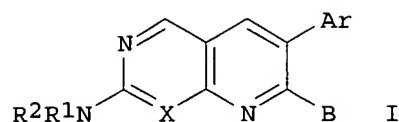
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OTHER SOURCE(S) : MARPAT 125:114688
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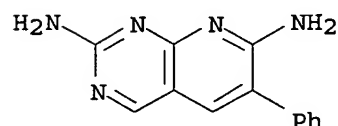
AB 6-Arylpyrido[2,3-d]pyrimidines and naphthyridines I [X = CH, N; B = halo, OH, NR3R4; R1, R2, R3, R4 = H, C1-8 alkyl, C2-8 alkenyl, C2-8 alkynyl, Ar', amino, C1-8 alkylamino, di-C1-8 alkylamino, wherein the alkyl, alkenyl, and alkynyl groups may be substituted by amino, OH, or 5- or 6-membered carbocyclic or heterocyclic ring; Ar, Ar' = (un)substituted aromatic or heteroarom. groups; R1R2N or R3R4N can complete a ring having 3-6 C atoms and optionally containing 1 or 2 heteroatoms; when X = N and B = NR3R4, one of R3 and R4 ≠ H] or their pharmaceutically acceptable acid and base addition salts, useful as inhibitors of protein tyrosine kinase and thus useful in treating cellular proliferation mediated thereby, are claimed. The compds. are especially useful in treating atherosclerosis, restenosis, psoriasis, as well as bacterial infections. In an example, the IC50 of I [X = N, B = NHCONH2, R1 = H, R2 = Et2N(CH2)4 Ar = 2,6-Cl2C6H3; preparation given] for inhibition of protein tyrosine kinases was 0.231 μM for PDGF and 0.0954 for FGF.

IT 26752-61-4P 26752-70-5P 26752-80-7P
179343-17-0P 179343-18-1P 179343-19-2P
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179343-38-5P

(preparation of aryl pyridopyrimidines and naphthyridines for inhibiting protein tyrosine kinase-mediated cellular proliferation)

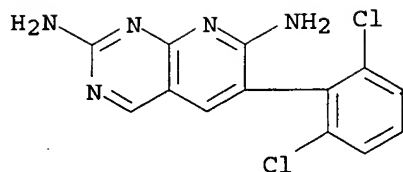
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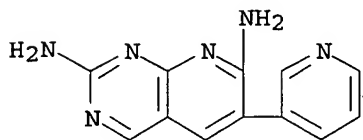


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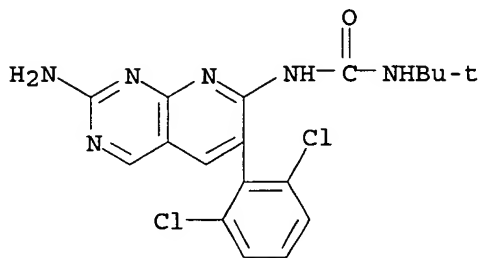
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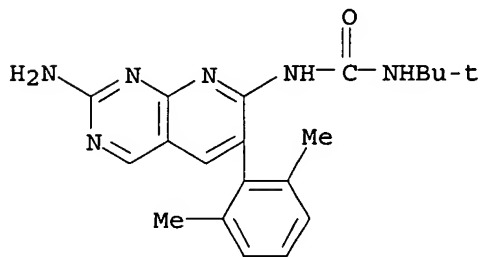
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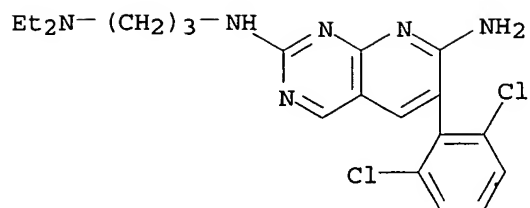
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RN 179343-18-1 HCAPLUS
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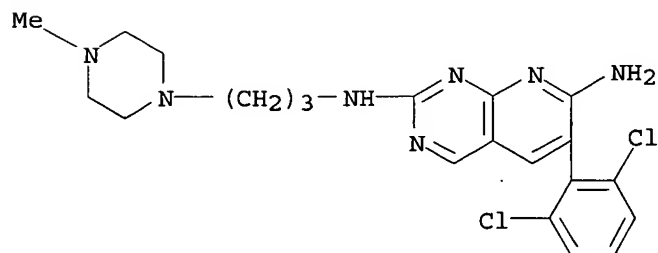


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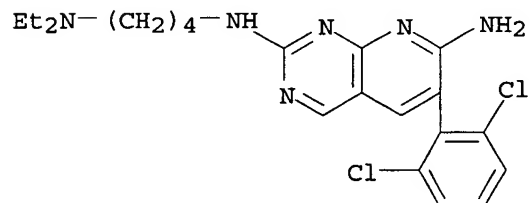
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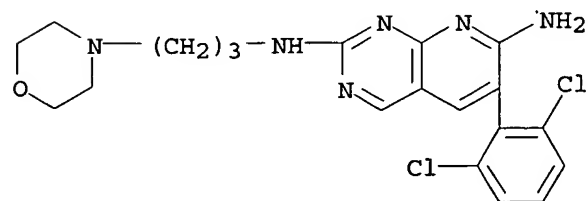
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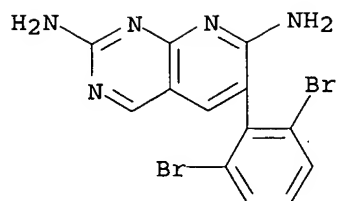
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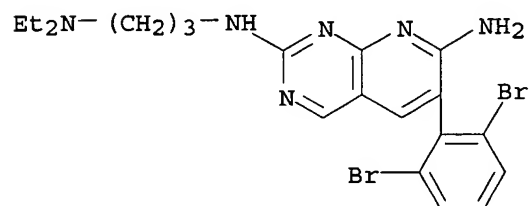
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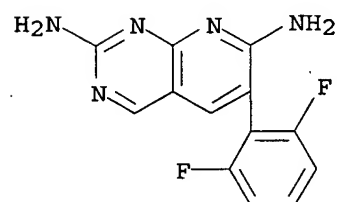
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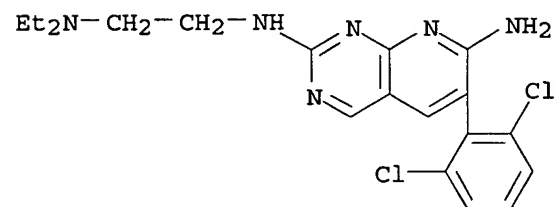
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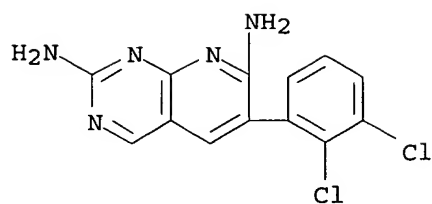
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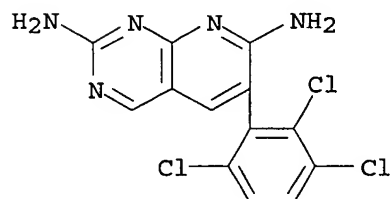


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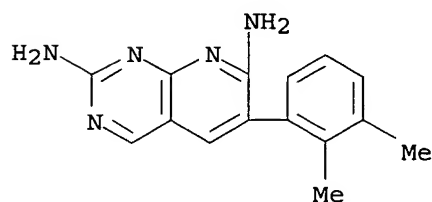
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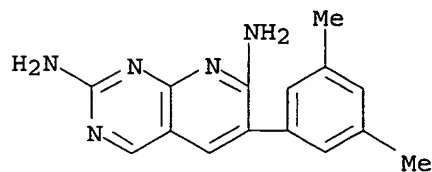
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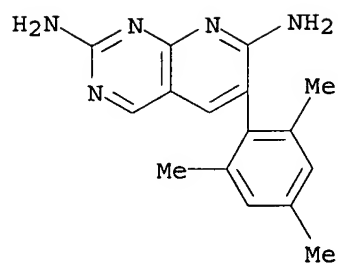
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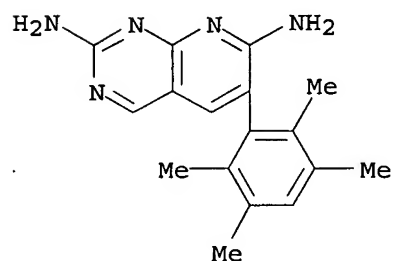
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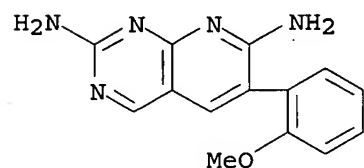
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 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,4,6-trimethylphenyl)-
 (9CI) (CA INDEX NAME)



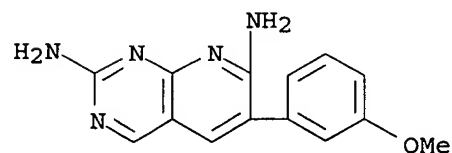
RN 179343-32-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,3,5,6-tetramethylphenyl) -
 (9CI) (CA INDEX NAME)



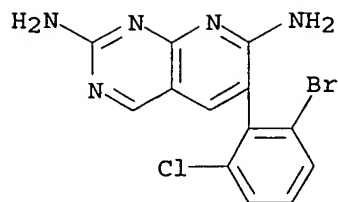
RN 179343-33-0 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2-methoxyphenyl) - (9CI)
 (CA INDEX NAME)



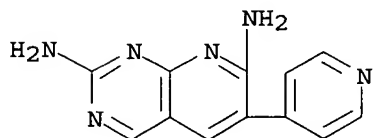
RN 179343-34-1 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(3-methoxyphenyl) - (9CI)
 (CA INDEX NAME)



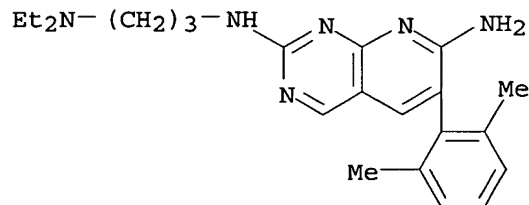
RN 179343-35-2 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2-bromo-6-chlorophenyl) -
 (9CI) (CA INDEX NAME)



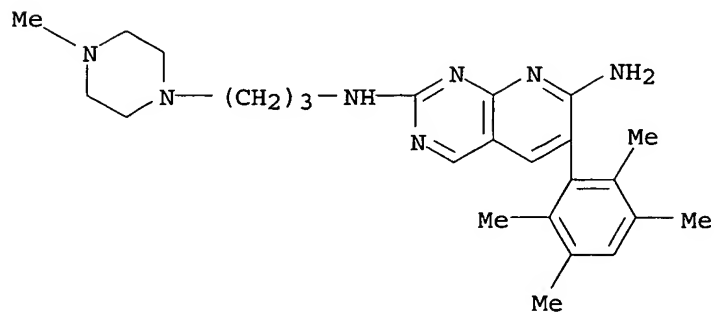
RN 179343-36-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 179343-37-4 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, N2-[3-(diethylamino)propyl]-6-(2,6-dimethylphenyl)- (9CI) (CA INDEX NAME)



RN 179343-38-5 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, N2-[3-(4-methyl-1-piperazinyl)propyl]-6-(2,3,5,6-tetramethylphenyl)- (9CI) (CA INDEX NAME)



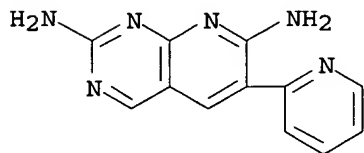
IT 26752-79-4P 84279-29-8P 179342-38-2P
 179342-39-3P 179342-41-7P 179342-42-8P
 179342-46-2P 179342-48-4P 179342-50-8P
 179342-51-9P 179342-52-0P 179342-53-1P
 179342-54-2P 179342-55-3P 179342-56-4P

179342-57-5P 179342-58-6P 179342-59-7P
179342-60-0P 179342-61-1P 179342-62-2P
179342-63-3P 179342-64-4P 179342-65-5P
179342-66-6P 179342-67-7P 179342-68-8P
179342-69-9P 179342-70-2P 179342-71-3P
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179342-75-7P 179342-76-8P 179342-77-9P
179342-78-0P 179342-79-1P 179342-80-4P
179342-81-5P 179342-82-6P 179342-83-7P
179342-84-8P 179342-85-9P 179342-86-0P
179342-87-1P 179342-88-2P 179342-89-3P
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179343-05-6P 179343-06-7P 179343-07-8P
179343-08-9P 179343-09-0P 179343-10-3P
179343-11-4P 179343-12-5P 179343-13-6P
179343-14-7P 179343-15-8P 179343-16-9P

(preparation of aryl pyridopyrimidines and naphthyridines for
inhibiting protein tyrosine kinase-mediated cellular
proliferation)

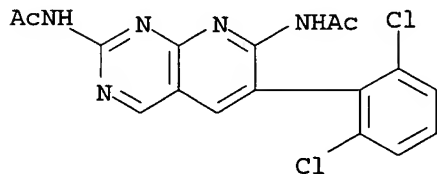
RN 26752-79-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2-pyridinyl)- (9CI) (CA
INDEX NAME)



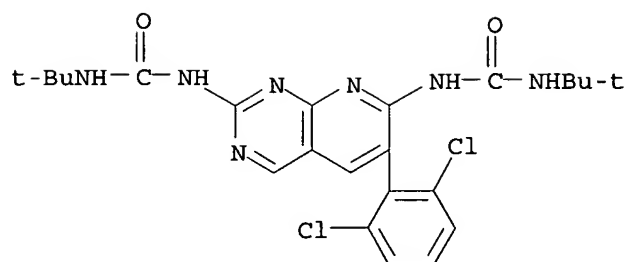
RN 84279-29-8 HCAPLUS

CN Acetamide, N,N'-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine-2,7-
diyl]bis- (9CI) (CA INDEX NAME)



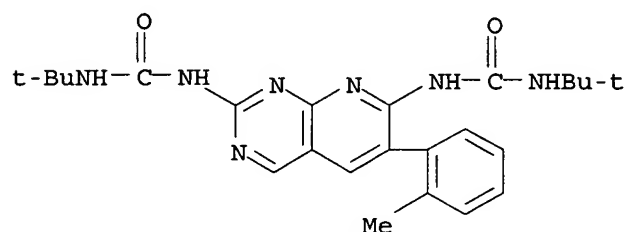
RN 179342-38-2 HCAPLUS

CN Urea, N,N''-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine-2,7-
diyl]bis[N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



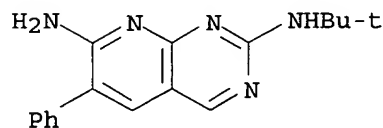
RN 179342-39-3 HCAPLUS

CN Urea, N,N''-[6-(2-methylphenyl)pyrido[2,3-d]pyrimidine-2,7-diyl]bis[N'-(1,1-dimethylethyl)-(9CI) (CA INDEX NAME)



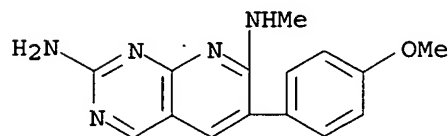
RN 179342-41-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, N2-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



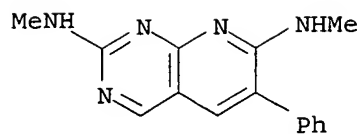
RN 179342-42-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(4-methoxyphenyl)-N7-methyl- (9CI) (CA INDEX NAME)



RN 179342-46-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, N,N'-dimethyl-6-phenyl- (9CI) (CA INDEX NAME)



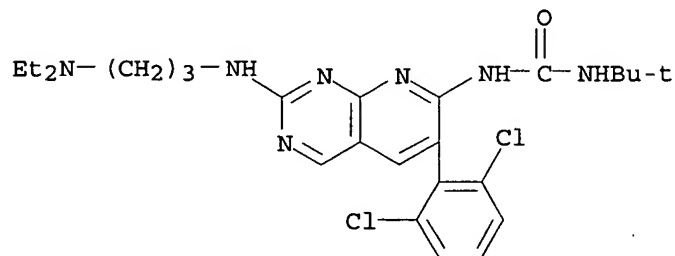
RN 179342-48-4 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-, trifluoroacetate (50:11) (9CI) (CA INDEX NAME)

CM 1

CRN 179342-47-3

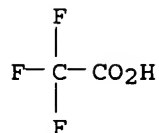
CMF C25 H33 Cl2 N7 O



CM 2

CRN 76-05-1

CMF C2 H F3 O2



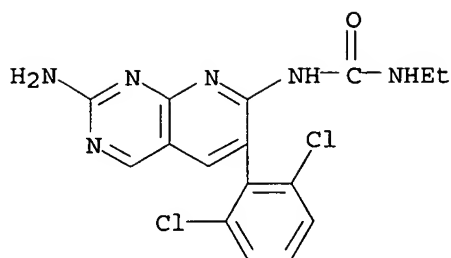
RN 179342-50-8 HCAPLUS

CN Acetic acid ethyl ester, compd. with N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-ethylurea (3:20) (9CI) (CA INDEX NAME)

CM 1

CRN 179342-49-5

CMF C16 H14 Cl2 N6 O



CM 2

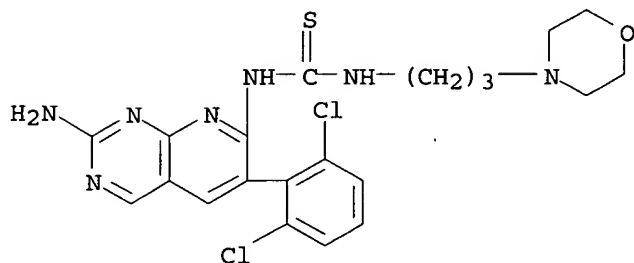
CRN 141-78-6

CMF C4 H8 O2

Et-O-Ac

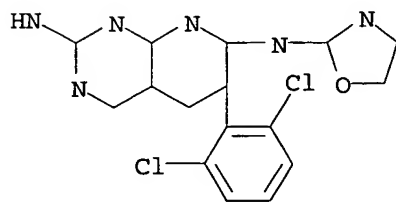
RN 179342-51-9 HCAPLUS

CN Thiourea, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-[3-(4-morpholinyl)propyl]- (9CI) (CA INDEX NAME)



RN 179342-52-0 HCAPLUS

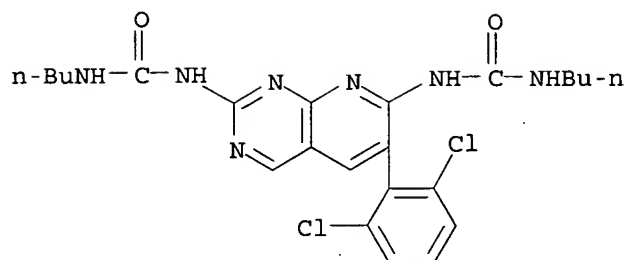
CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N7-(4,5-dihydro-2-oxazolyl)- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

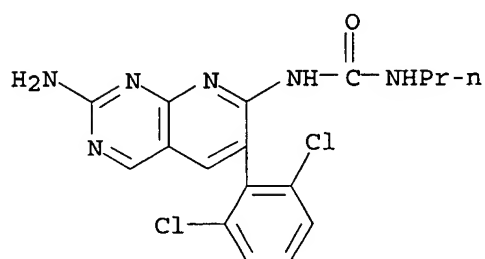
RN 179342-53-1 HCAPLUS

CN Urea, N,N'-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine-2,7-diyl]bis[N'-butyl]- (9CI) (CA INDEX NAME)



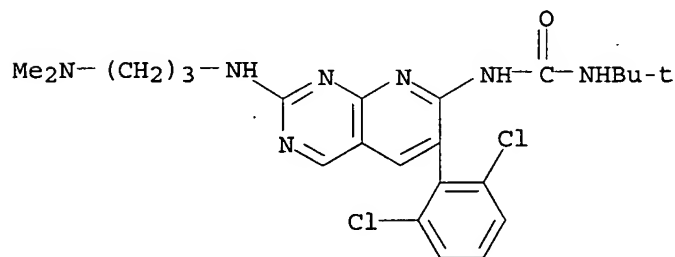
RN 179342-54-2 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-propyl- (9CI) (CA INDEX NAME)



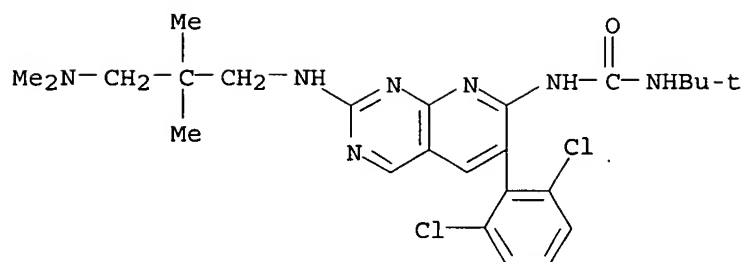
RN 179342-55-3 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(dimethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



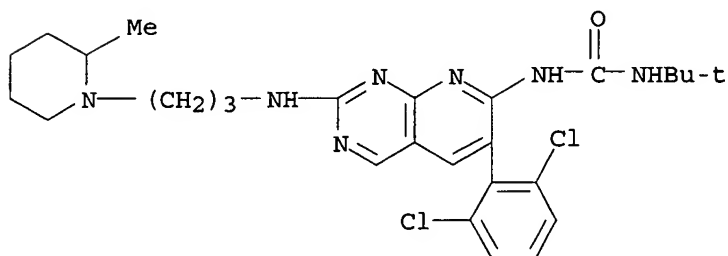
RN 179342-56-4 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(dimethylamino)-2,2-dimethylpropyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



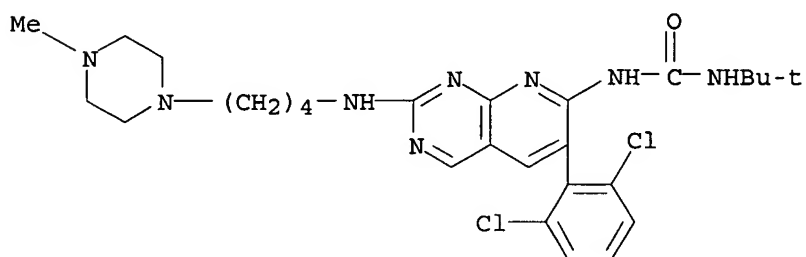
RN 179342-57-5 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(2-methyl-1-piperidinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



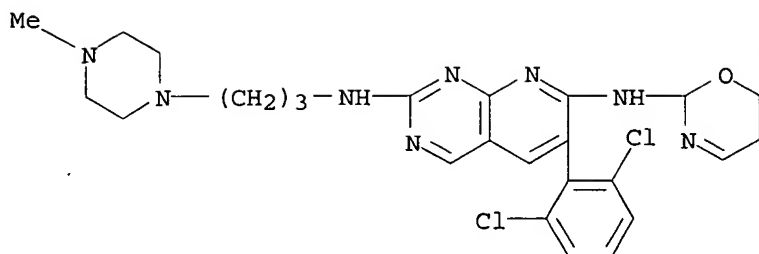
RN 179342-58-6 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(4-methyl-1-piperazinyl)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



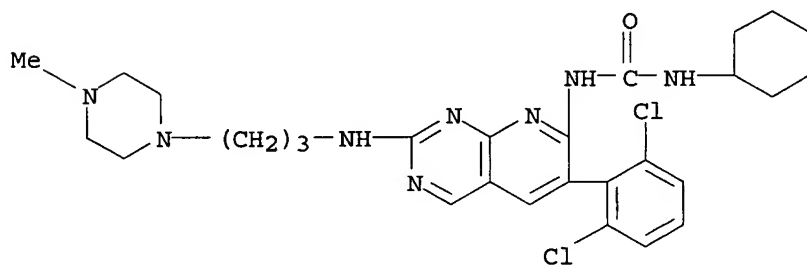
RN 179342-59-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N7-(5,6-dihydro-2H-1,3-oxazin-2-yl)-N2-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)



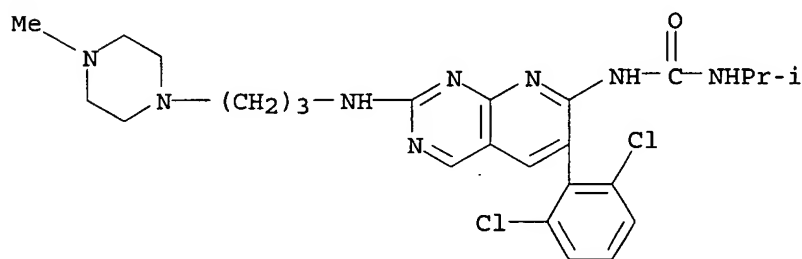
RN 179342-60-0 HCAPLUS

CN Urea, N-cyclohexyl-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



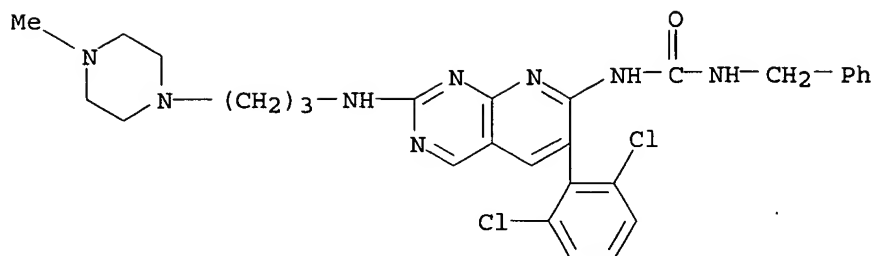
RN 179342-61-1 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)-(9CI) (CA INDEX NAME)



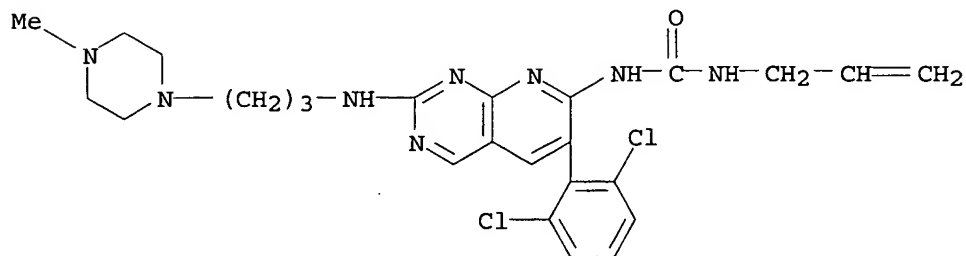
RN 179342-62-2 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(phenylmethyl)-(9CI) (CA INDEX NAME)



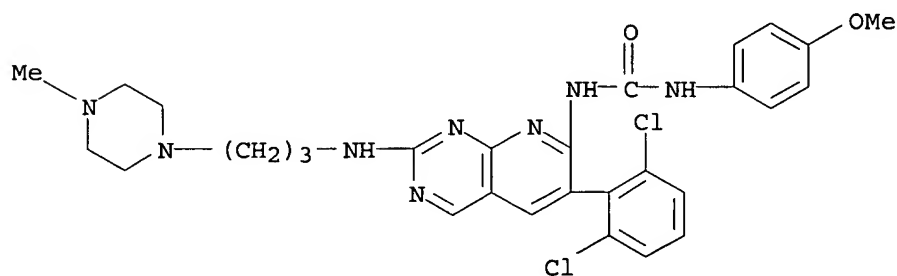
RN 179342-63-3 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-2-propenyl- (9CI) (CA INDEX NAME)



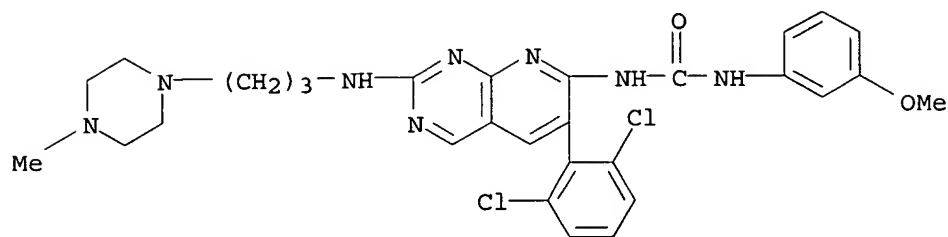
RN 179342-64-4 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



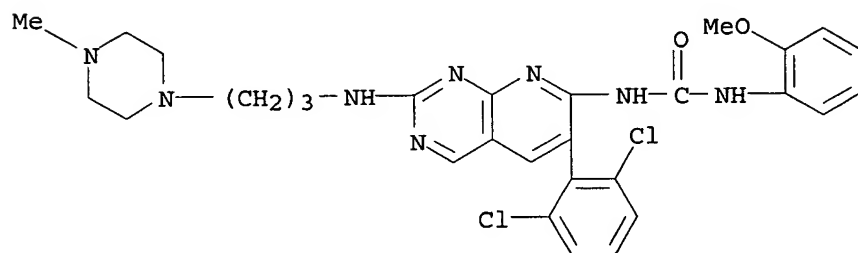
RN 179342-65-5 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)



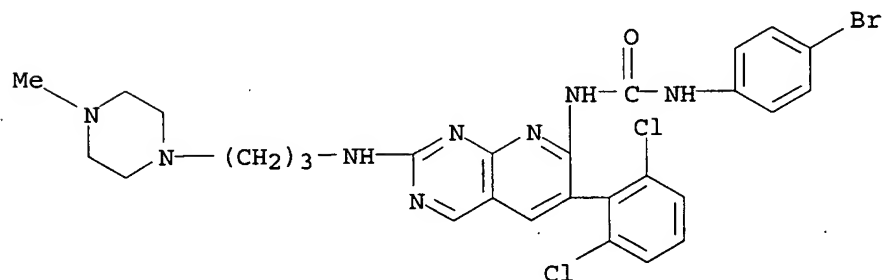
RN 179342-66-6 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



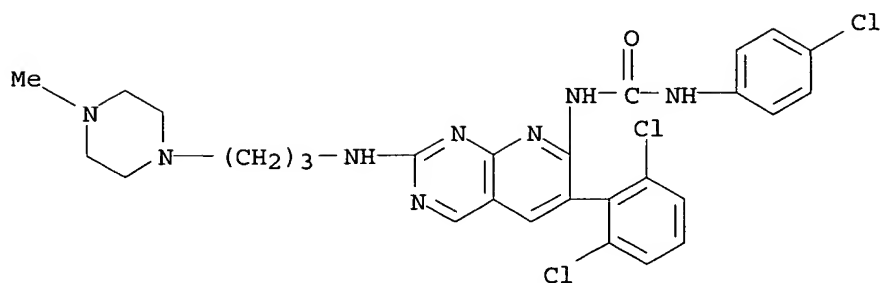
RN 179342-67-7 HCAPLUS

CN Urea, N-(4-bromophenyl)-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



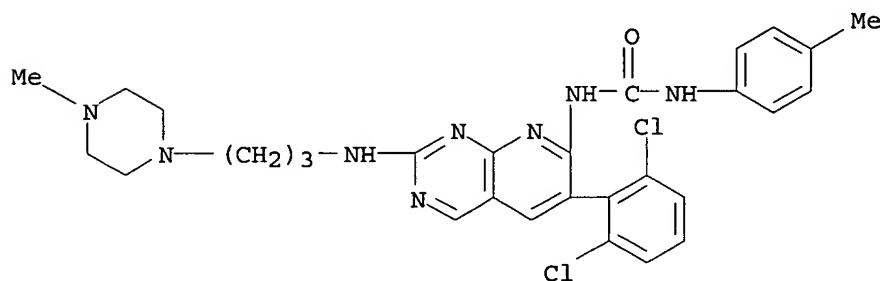
RN 179342-68-8 HCAPLUS

CN Urea, N-(4-chlorophenyl)-N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



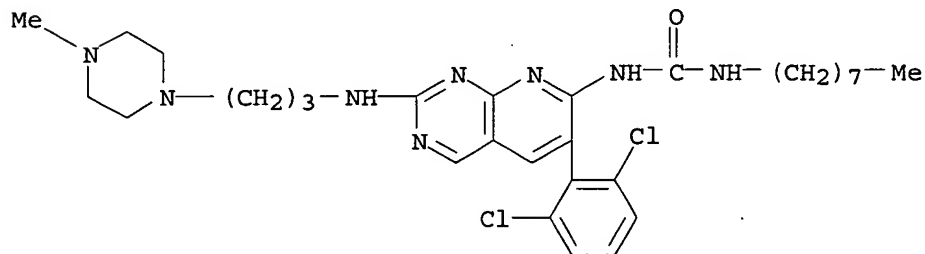
RN 179342-69-9 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(4-methylphenyl)- (9CI) (CA INDEX NAME)



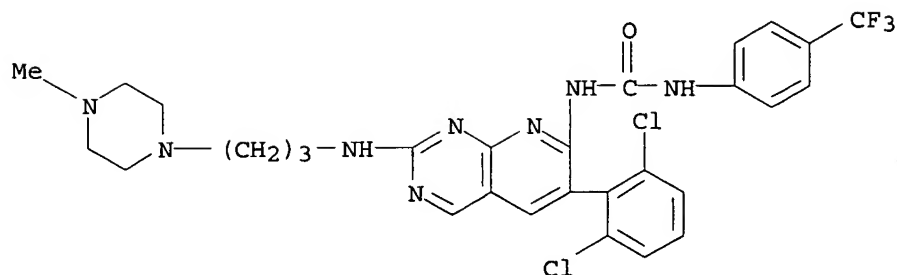
RN 179342-70-2 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-octyl- (9CI) (CA INDEX NAME)



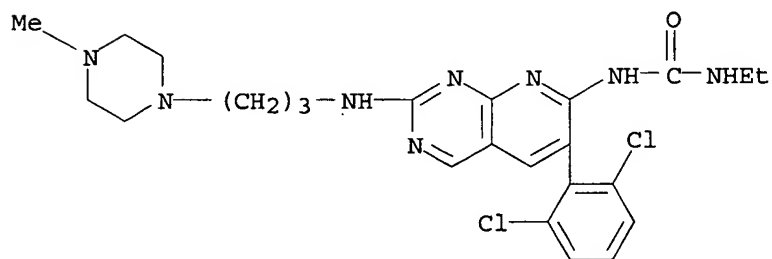
RN 179342-71-3 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



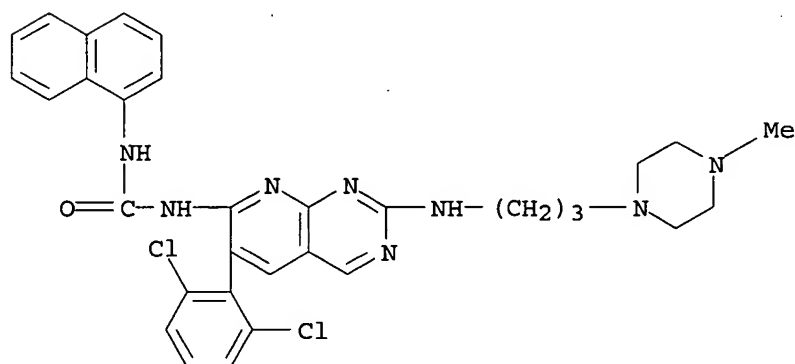
RN 179342-72-4 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



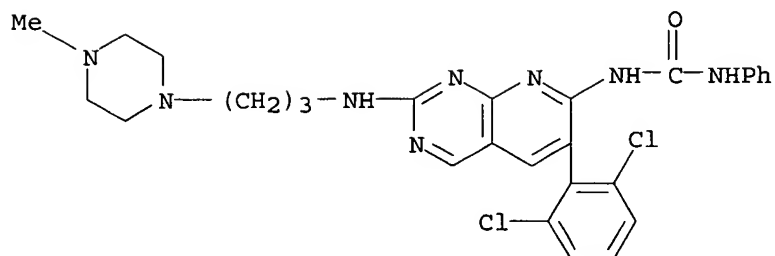
RN 179342-73-5 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-1-naphthalenyl- (9CI) (CA INDEX NAME)



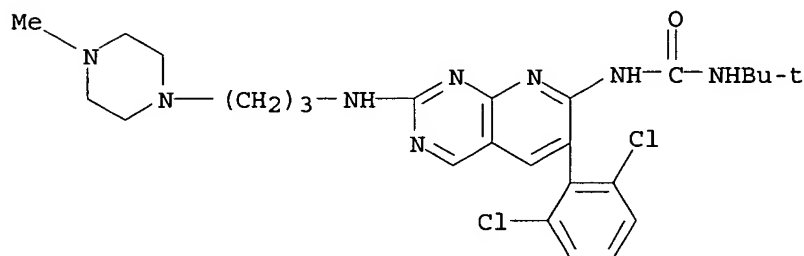
RN 179342-74-6 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



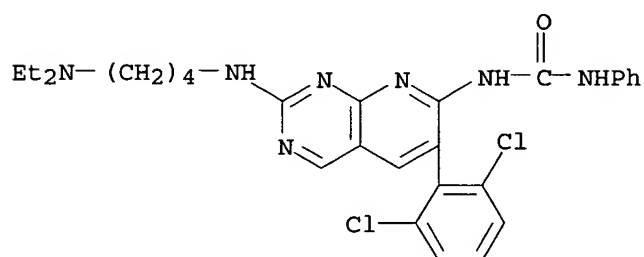
RN 179342-75-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)-(9CI) (CA INDEX NAME)



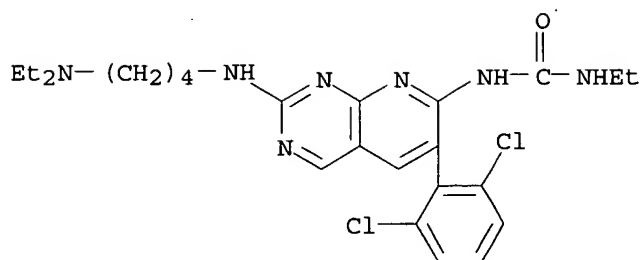
RN 179342-76-8 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl-(9CI) (CA INDEX NAME)



RN 179342-77-9 HCAPLUS

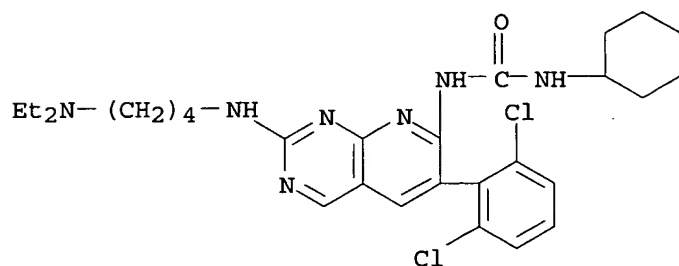
CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl-, hydrochloride (10:11) (9CI) (CA INDEX NAME)



●11/10 HCl

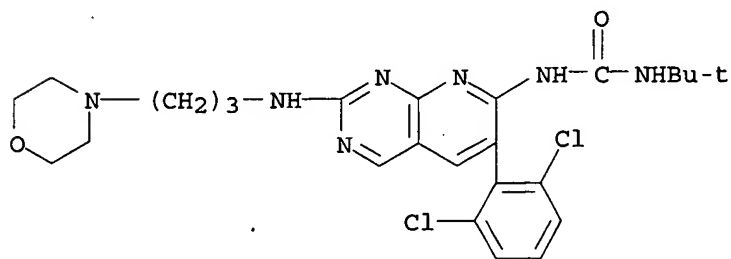
RN 179342-78-0 HCAPLUS

CN Urea, N-cyclohexyl-N'-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl] - (9CI) (CA INDEX NAME)



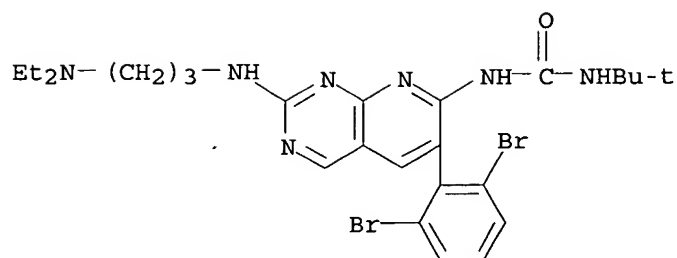
RN 179342-79-1 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-morpholinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl) - (9CI) (CA INDEX NAME)



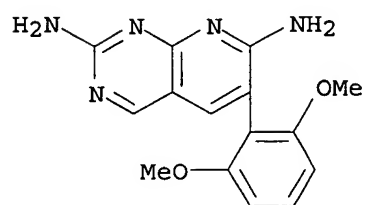
RN 179342-80-4 HCAPLUS

CN Urea, N-[6-(2,6-dibromophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl) - (9CI) (CA INDEX NAME)



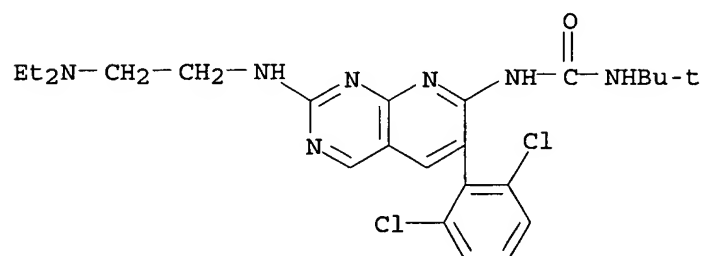
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CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dimethoxyphenyl)-
(9CI) (CA INDEX NAME)



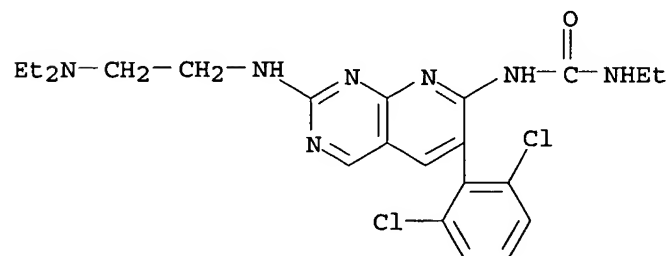
RN 179342-82-6 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[2-(diethylamino)ethyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



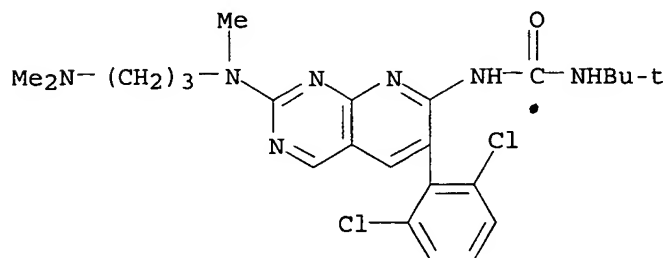
RN 179342-83-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[2-(diethylamino)ethyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl-
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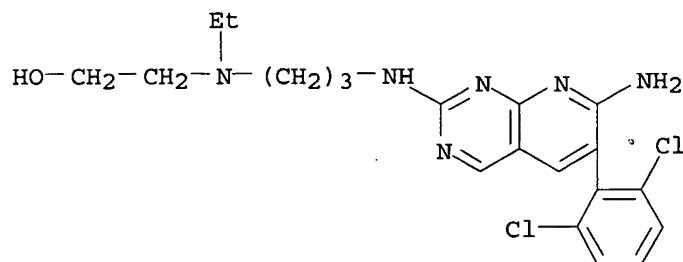
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(dimethylamino)propyl]methylamino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



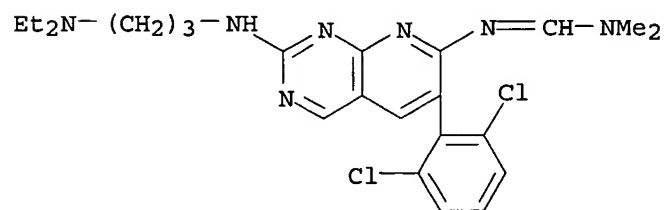
RN 179342-85-9 HCAPLUS

CN Ethanol, 2-[[3-[[7-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]ethylamino]- (9CI) (CA INDEX NAME)



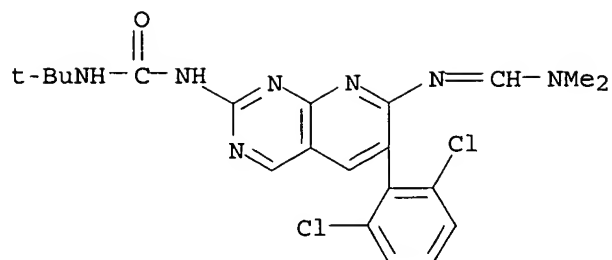
RN 179342-86-0 HCAPLUS

CN Methanimidamide, N'-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



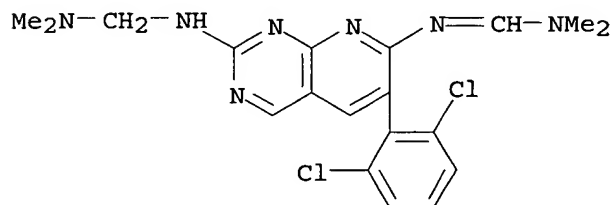
RN 179342-87-1 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-7-[[[(dimethylamino)methylene]amino]pyrido[2,3-d]pyrimidin-2-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



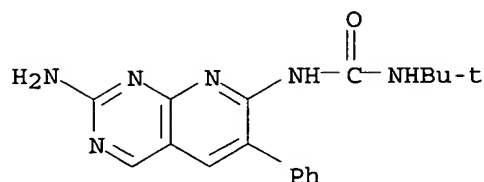
RN 179342-88-2 HCAPLUS

CN Methanimidamide, N'-[6-(2,6-dichlorophenyl)-2-[[(dimethylamino)methyl]amino]pyrido[2,3-d]pyrimidin-6-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



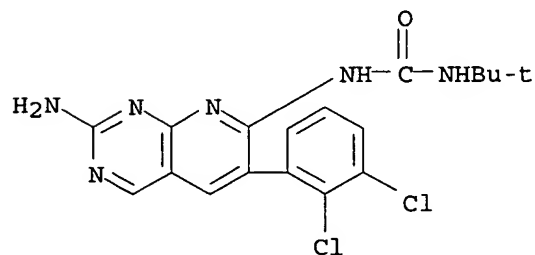
RN 179342-89-3 HCAPLUS

CN Urea, N-(2-amino-6-phenylpyrido[2,3-d]pyrimidin-7-yl)-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



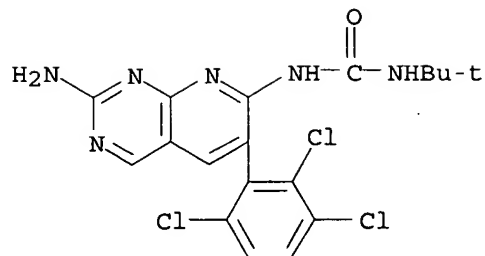
RN 179342-90-6 HCAPLUS

CN Urea, N-[2-amino-6-(2,3-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



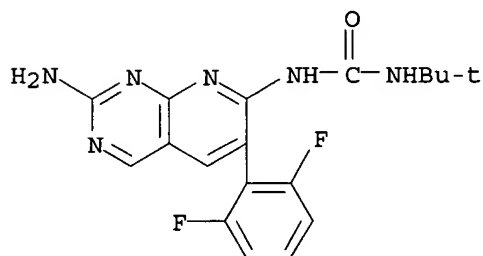
RN 179342-91-7 HCAPLUS

CN Urea, N-[2-amino-6-(2,3,6-trichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



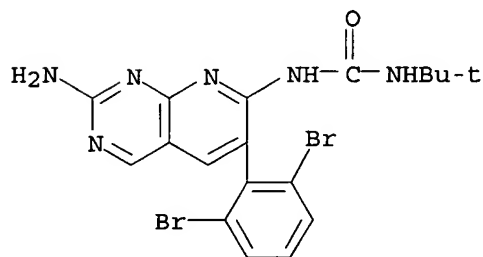
RN 179342-92-8 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-difluorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



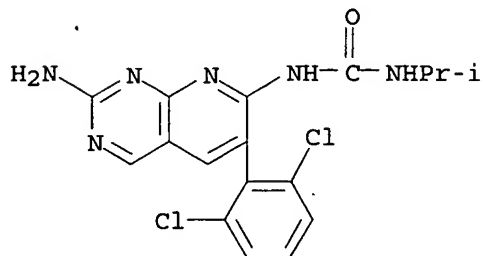
RN 179342-93-9 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-dibromophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



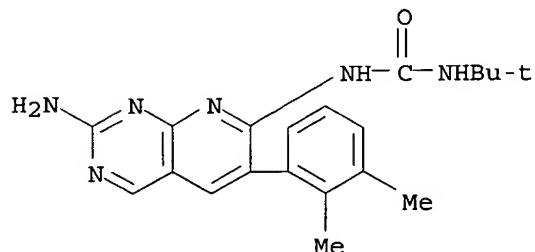
RN 179342-94-0 HCAPLUS

CN Urea, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



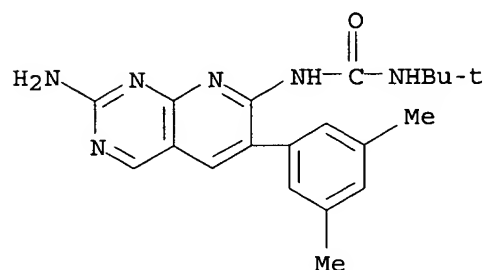
RN 179342-95-1 HCAPLUS

CN Urea, N-[2-amino-6-(2,3-dimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



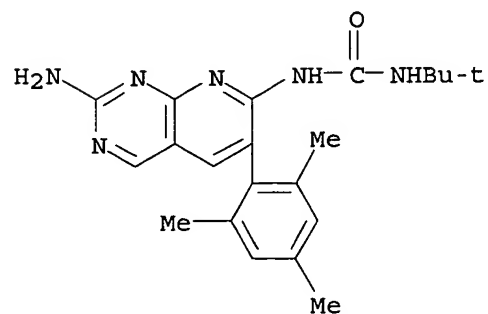
RN 179342-96-2 HCAPLUS

CN Urea, N-[2-amino-6-(3,5-dimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



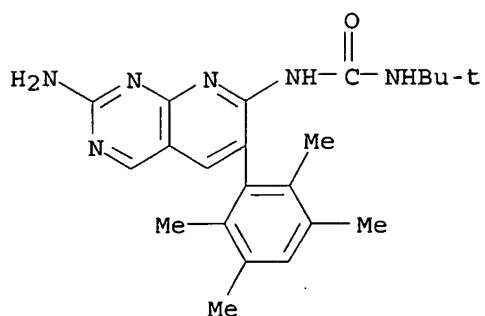
RN 179342-97-3 HCAPLUS

CN Urea, N-[2-amino-6-(2,4,6-trimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



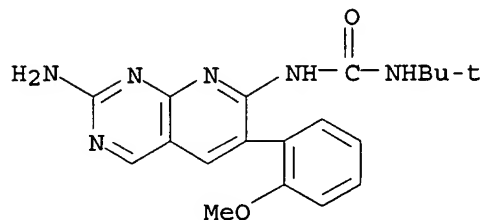
RN 179342-98-4 HCAPLUS

CN Urea, N-[2-amino-6-(2,3,5,6-tetramethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



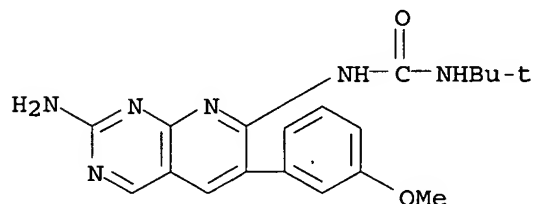
RN 179342-99-5 HCAPLUS

CN Urea, N-[2-amino-6-(2-methoxyphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



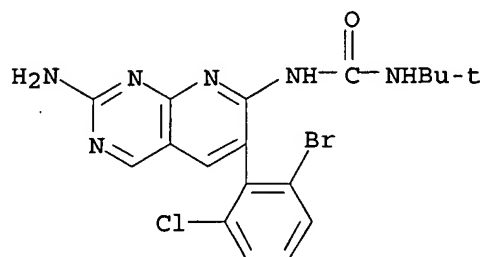
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CN Urea, N-[2-amino-6-(3-methoxyphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



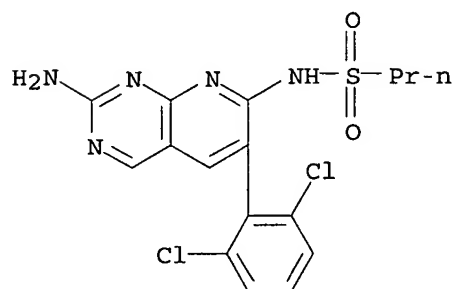
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CN Urea, N-[2-amino-6-(2-bromo-6-chlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



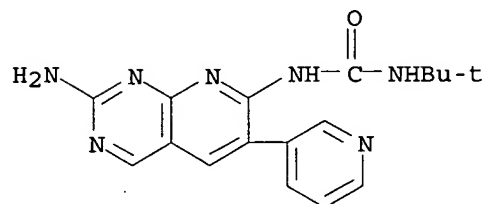
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CN 1-Propanesulfonamide, N-[2-amino-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



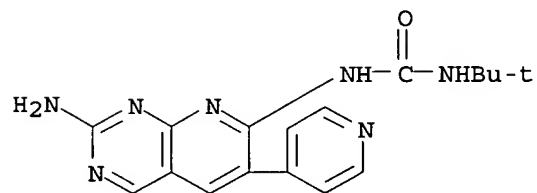
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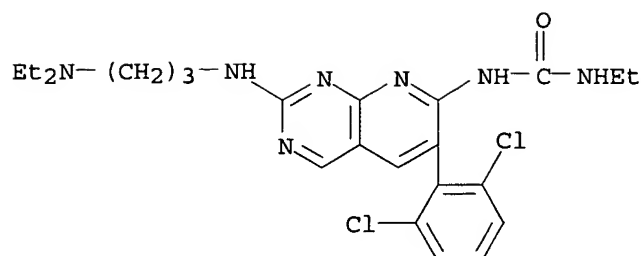
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CN Urea, N-[2-amino-6-(4-pyridinyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

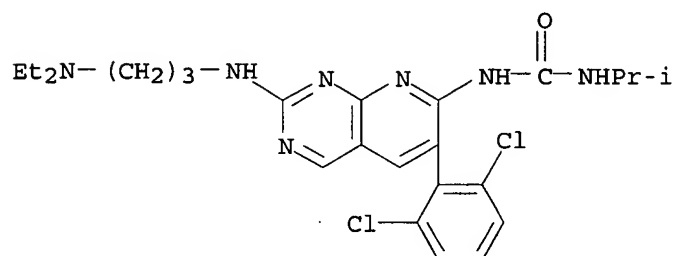


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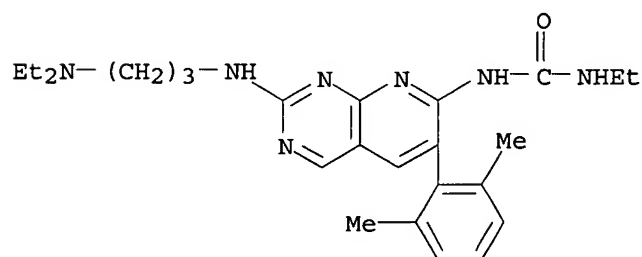
CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



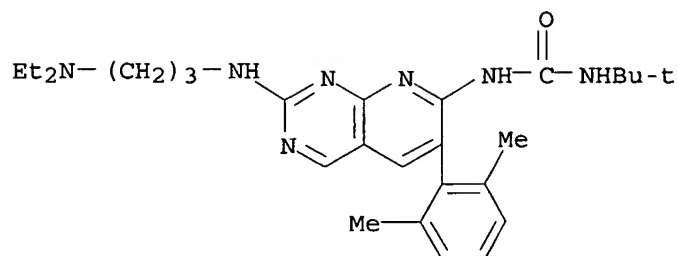
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 CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 179343-07-8 HCAPLUS
 CN Urea, N-[2-[[3-(diethylamino)propyl]amino]-6-(2,6-dimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)

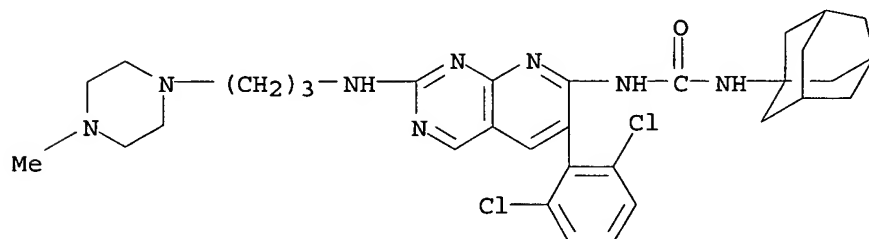


RN 179343-08-9 HCAPLUS
 CN Urea, N-[2-[[3-(diethylamino)propyl]amino]-6-(2,6-dimethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



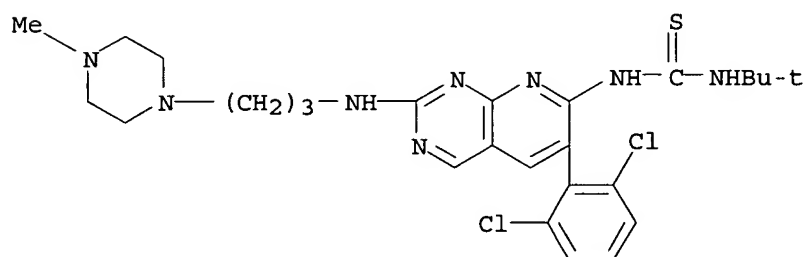
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CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-tricyclo[3.3.1.1^{3,7}]dec-1-yl- (9CI) (CA INDEX NAME)



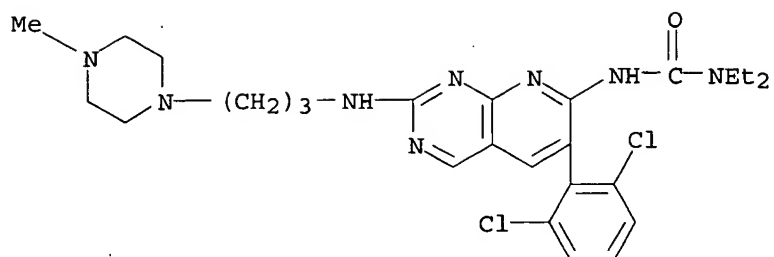
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CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



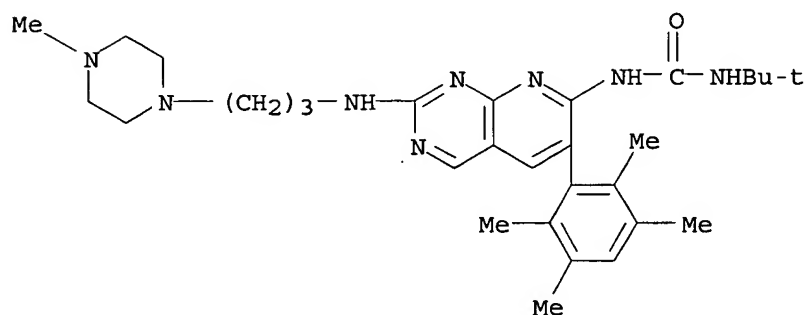
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CN Urea, N'-[6-(2,6-dichlorophenyl)-2-[[3-(4-methyl-1-piperazinyl)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N,N-diethyl- (9CI) (CA INDEX NAME)



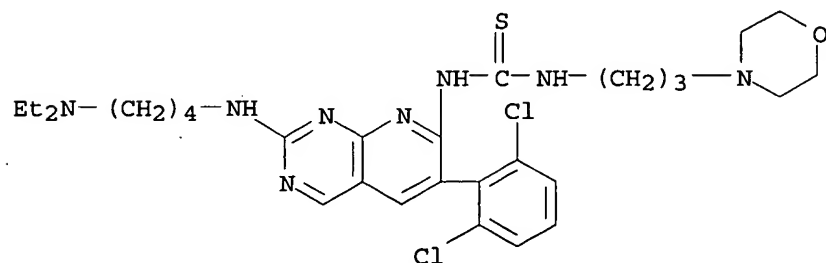
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CN Urea, N-(1,1-dimethylethyl)-N'-[2-[[3-(4-methyl-1-piperazinyl)propyl]amino]-6-(2,3,5,6-tetramethylphenyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



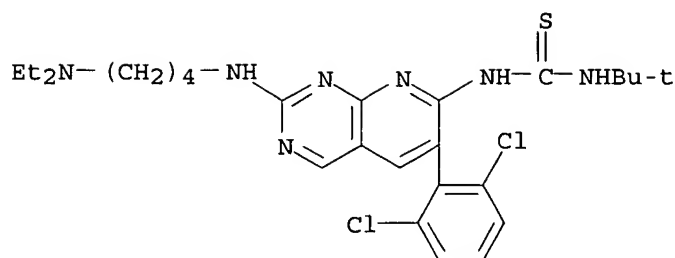
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CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-[3-(4-morpholinyl)propyl]- (9CI) (CA INDEX NAME)



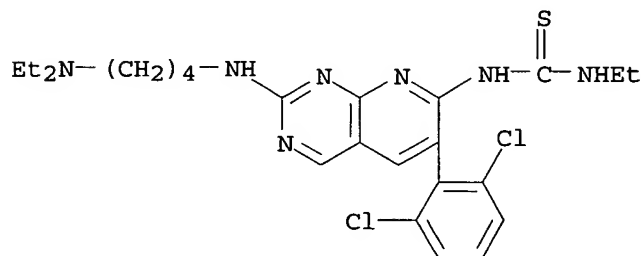
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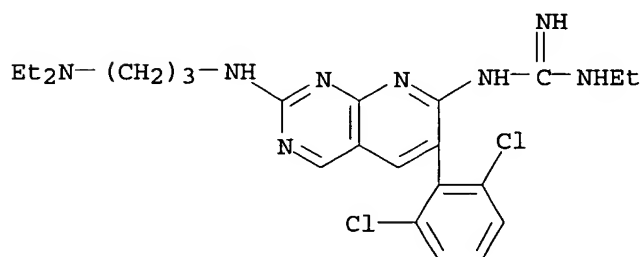
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CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



RN 179343-16-9 HCAPLUS

CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-[[3-(diethylamino)propyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)

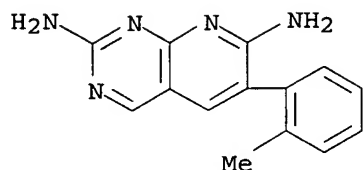


IT 26752-64-7P 179343-44-3P 179343-45-4P
179343-46-5P 179343-47-6P 179343-48-7P
179343-49-8P

(preparation of aryl pyridopyrimidines and naphthyridines for inhibiting protein tyrosine kinase-mediated cellular proliferation)

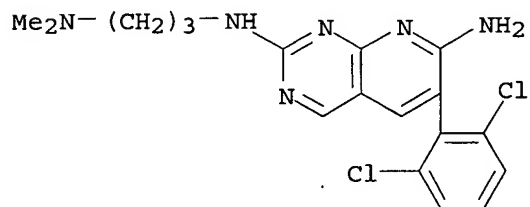
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CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2-methylphenyl)- (9CI) (CA INDEX NAME)



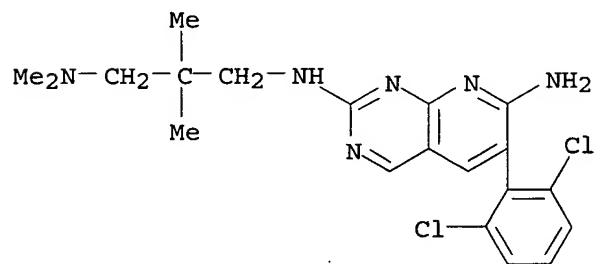
RN 179343-44-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



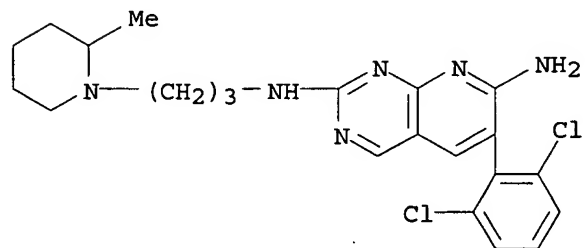
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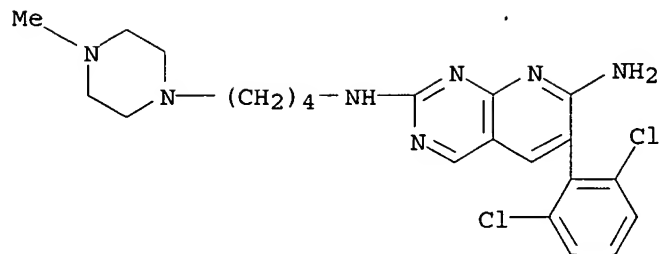
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CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(2-methyl-1-piperidinyl)propyl]- (9CI) (CA INDEX NAME)



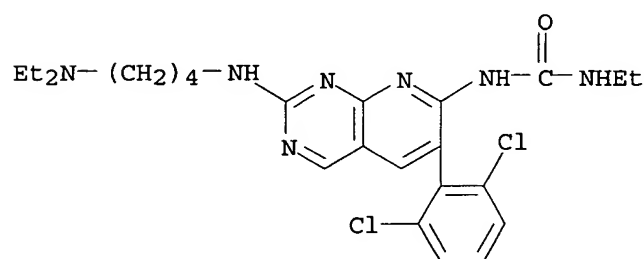
RN 179343-47-6 HCAPLUS

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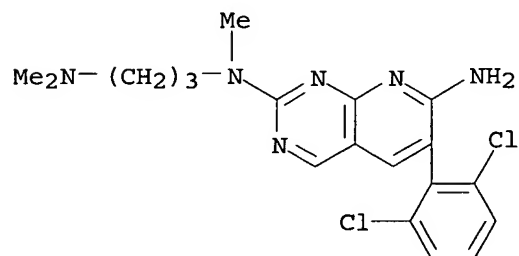
RN 179343-48-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



RN 179343-49-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-[3-(dimethylamino)propyl]-N2-methyl- (9CI) (CA INDEX NAME)

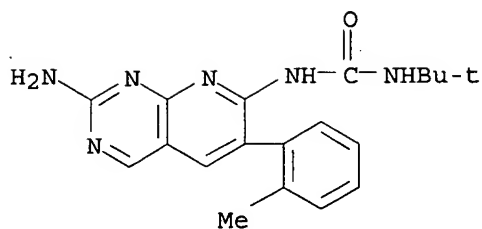


IT 179342-40-6P 179343-51-2P 179343-52-3P

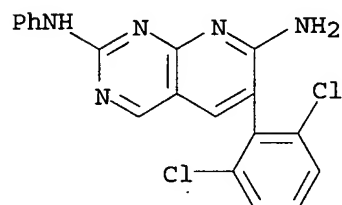
(preparation of aryl pyridopyrimidines and naphthyridines for inhibiting protein tyrosine kinase-mediated cellular proliferation)

RN 179342-40-6 HCAPLUS

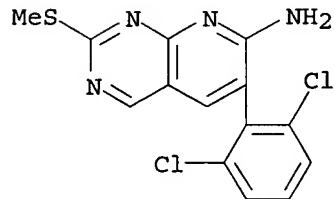
CN Urea, N-[2-amino-6-(2-methylphenyl)pyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 179343-51-2 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,7-diamine, 6-(2,6-dichlorophenyl)-N2-phenyl- (9CI) (CA INDEX NAME)



RN 179343-52-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2-(methylthio)- (9CI) (CA INDEX NAME)



IC ICM C07D471-04
 ICS A61K031-44; A61K031-505
 ICI C07D471-04, C07D221-00; C07D471-04, C07D239-00, C07D221-00
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 7, 63
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 (preparation of aryl pyridopyrimidines and naphthyridines for inhibiting protein tyrosine kinase-mediated cellular proliferation)
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 179342-84-8P 179342-85-9P 179342-86-0P
 179342-87-1P 179342-88-2P 179342-89-3P
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 179342-99-5P 179343-00-1P 179343-01-2P
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 179343-05-6P 179343-06-7P 179343-07-8P
 179343-08-9P 179343-09-0P 179343-10-3P
 179343-11-4P 179343-12-5P 179343-13-6P
 179343-14-7P 179343-15-8P 179343-16-9P

(preparation of aryl pyridopyrimidines and naphthyridines for inhibiting protein tyrosine kinase-mediated cellular proliferation)

IT 588-36-3P 770-31-0P 776-53-4P 26752-64-7P
 99973-42-9P 179343-39-6P 179343-40-9P 179343-41-0P
 179343-42-1P 179343-43-2P 179343-44-3P
 179343-45-4P 179343-46-5P 179343-47-6P
 179343-48-7P 179343-49-8P 179343-50-1P

(preparation of aryl pyridopyrimidines and naphthyridines for inhibiting protein tyrosine kinase-mediated cellular proliferation)

IT 179342-40-6P 179343-51-2P 179343-52-3P
 (preparation of aryl pyridopyrimidines and naphthyridines for inhibiting protein tyrosine kinase-mediated cellular proliferation)

L36 ANSWER 29 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:248016 HCAPLUS

DOCUMENT NUMBER: 124:289568

TITLE: Preparation of pyrido[2,3-d]pyrimidine-2,4-dione derivatives as antiasthmatics and antiallergics

INVENTOR(S): Furukawa, Kazuhito; Hasegawa, Taisuke

PATENT ASSIGNEE(S): Nippon Zoki Pharmaceutical Co., Ltd., Japan

SOURCE: Can. Pat. Appl., 35 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CA 2151971	AA	19951218	CA 1995-2151971	1995 0616

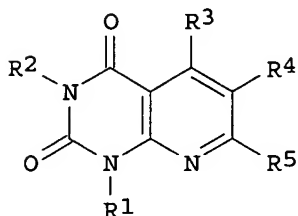
JP 08003046	A2	19960109	JP 1994-159322	<--	1994 0617
JP 08003164	A2	19960109	JP 1994-159323	<--	1994 0617
JP 08003165	A2	19960109	JP 1994-159324	<--	1994 0617
US 5776942	A	19980707	US 1995-490297	<--	1995 0614
AU 9521752	A1	19960104	AU 1995-21752	<--	1995 0616
AU 694958 EP 696590	B2 A1	19980806 19960214	EP 1995-109391	<--	1995 0616
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI CN 1120436	A	19960417	CN 1995-107046	<--	1995 0616

PRIORITY APPLN. INFO.:

JP 1994-159322	A	1994 0617
JP 1994-159323	A	1994 0617
JP 1994-159324	A	1994 0617

OTHER SOURCE(S):
GI

CASREACT 124:289568; MARPAT 124:289568



AB The title compds. [I; R1, R2 = H, alkyl, benzyl; R3 = H, OH, dialkylaminomethylenamino, NHX (wherein X = H, alkyl, alkenyl,

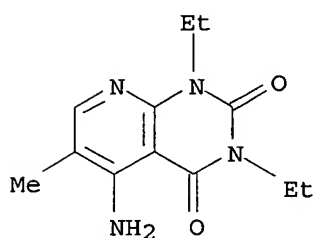
etc.); R4 = H, alkyl halo, etc.; R5 = H, alkyl, amino], useful in treatment of asthma as well as various allergic diseases, were prepared and formulated. Bromination of I [R1 = R2 = Et; R3 = NH2; R4 = R5 = H] with Br2 in the presence of pyridine in CCl4 afforded I [R1 = R2 = Et; R3 = NH2; R4 = Br; R5 = H] which showed at 10⁻⁵ M 103.4% relaxation rate to the sustained height contracted by histamine dihydrochloride.

IT 175681-06-8P 175681-08-0P 175681-15-9P
175681-18-2P 175681-24-0P

(preparation of pyrido[2,3-d]pyrimidine-2,4-dione derivs. as antiasthmatics and antiallergics)

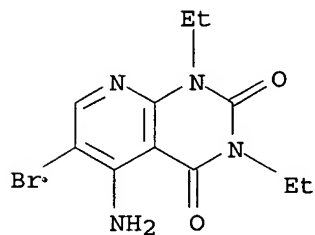
RN 175681-06-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-1,3-diethyl-6-methyl- (9CI) (CA INDEX NAME)



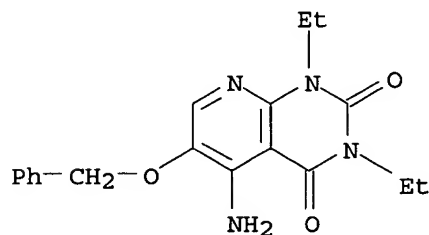
RN 175681-08-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-6-bromo-1,3-diethyl- (9CI) (CA INDEX NAME)



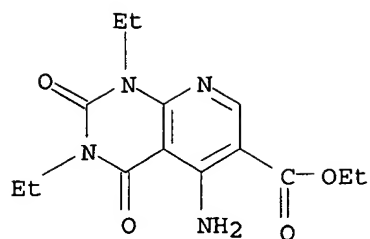
RN 175681-15-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-1,3-diethyl-6-(phenylmethoxy)- (9CI) (CA INDEX NAME)



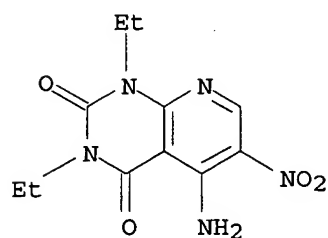
RN 175681-18-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 5-amino-1,3-diethyl-1,2,3,4-tetrahydro-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 175681-24-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-1,3-diethyl-6-nitro- (9CI) (CA INDEX NAME)



IT 107710-70-3P 175681-07-9P 175681-09-1P

175681-10-4P 175681-11-5P 175681-14-8P

175681-16-0P 175681-17-1P 175681-19-3P

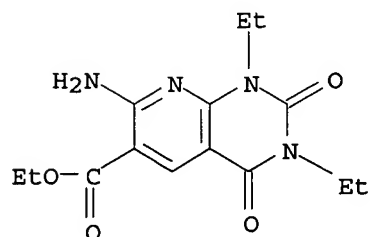
175681-20-6P 175681-21-7P 175681-22-8P

175681-23-9P 175681-25-1P

(preparation of pyrido[2,3-d]pyrimidine-2,4-dione derivs. as antiasthmatics and antiallergics)

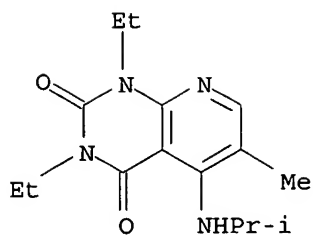
RN 107710-70-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1,3-diethyl-1,2,3,4-tetrahydro-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



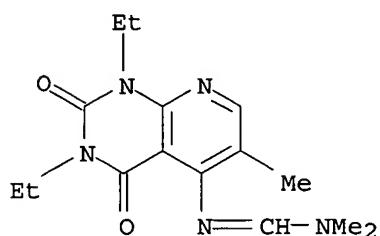
RN 175681-07-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1,3-diethyl-6-methyl-5-[(1-methylethyl)amino]- (9CI) (CA INDEX NAME)



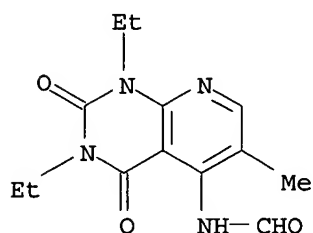
RN 175681-09-1 HCAPLUS

CN Methanimidamide, N'-(1,3-diethyl-1,2,3,4-tetrahydro-6-methyl-2,4-dioxypyrido[2,3-d]pyrimidin-5-yl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



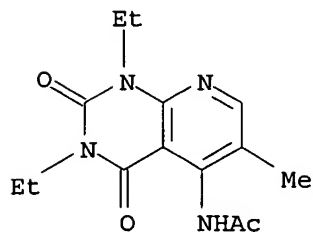
RN 175681-10-4 HCAPLUS

CN Formamide, N-(1,3-diethyl-1,2,3,4-tetrahydro-6-methyl-2,4-dioxypyrido[2,3-d]pyrimidin-5-yl)- (9CI) (CA INDEX NAME)



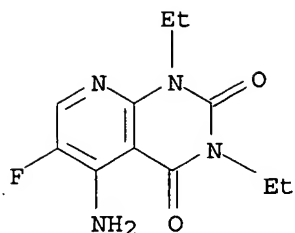
RN 175681-11-5 HCAPLUS

CN Acetamide, N-(1,3-diethyl-1,2,3,4-tetrahydro-6-methyl-2,4-dioxypyrido[2,3-d]pyrimidin-5-yl)- (9CI) (CA INDEX NAME)

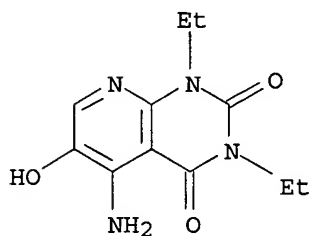


RN 175681-14-8 HCAPLUS

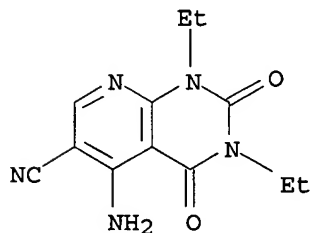
CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-1,3-diethyl-6-fluoro- (9CI) (CA INDEX NAME)



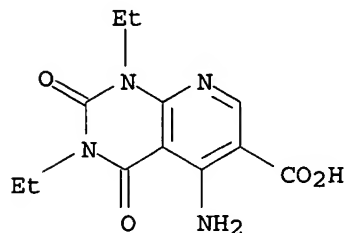
RN 175681-16-0 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 5-amino-1,3-diethyl-6-hydroxy- (9CI) (CA INDEX NAME)



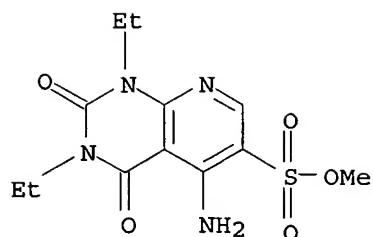
RN 175681-17-1 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 5-amino-1,3-diethyl-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



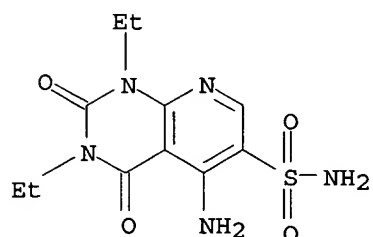
RN 175681-19-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 5-amino-1,3-diethyl-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



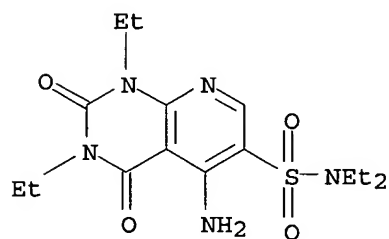
RN 175681-20-6 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-sulfonic acid, 5-amino-1,3-diethyl-1,2,3,4-tetrahydro-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)



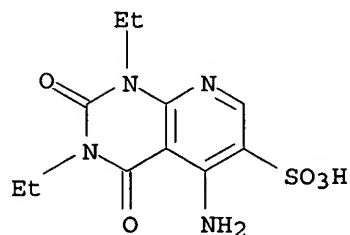
RN 175681-21-7 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-sulfonamide, 5-amino-1,3-diethyl-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



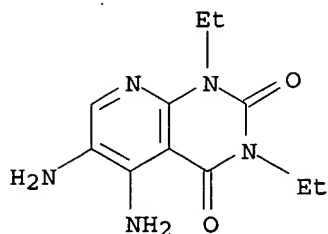
RN 175681-22-8 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-sulfonamide, 5-amino-N,N,1,3-tetraethyl-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 175681-23-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-sulfonic acid, 5-amino-1,3-diethyl-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)

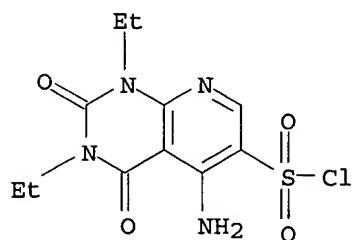


RN 175681-25-1 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6-diamino-1,3-diethyl-
 (9CI) (CA INDEX NAME)



IT 175681-26-2P
 (preparation of pyrido[2,3-d]pyrimidine-2,4-dione derivs. as
 antiasthmatics and antiallergics)

RN 175681-26-2 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-sulfonyl chloride, 5-amino-1,3-diethyl-
 1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



IC ICM C07D471-04
 ICS A61K031-505
 CC 28-16 (Heterocyclic Compounds (More Than One Hetero
 Atom))

Section cross-reference(s): 1, 63

IT 175680-88-3P 175681-06-8P 175681-08-0P
 175681-15-9P 175681-18-2P 175681-24-0P
 (preparation of pyrido[2,3-d]pyrimidine-2,4-dione derivs. as
 antiasthmatics and antiallergics)

IT 10280-47-4P 107710-70-3P 175680-75-8P 175680-76-9P
 175680-77-0P 175680-78-1P 175680-79-2P 175680-80-5P
 175680-81-6P 175680-82-7P 175680-83-8P 175680-84-9P
 175680-85-0P 175680-86-1P 175680-87-2P 175680-89-4P
 175680-90-7P 175680-91-8P 175680-92-9P 175680-93-0P
 175680-94-1P 175680-95-2P 175680-96-3P 175680-97-4P
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 175681-02-4P 175681-03-5P 175681-04-6P 175681-05-7P
 175681-07-9P 175681-09-1P 175681-10-4P
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 175681-14-8P 175681-16-0P 175681-17-1P
 175681-19-3P 175681-20-6P 175681-21-7P
 175681-22-8P 175681-23-9P 175681-25-1P

(preparation of pyrido[2,3-d]pyrimidine-2,4-dione derivs. as
 antiasthmatics and antiallergics)

IT 175681-26-2P 175681-27-3P
 (preparation of pyrido[2,3-d]pyrimidine-2,4-dione derivs. as

antiasthmatics and antiallergics)

L36 ANSWER 30 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:77293 HCAPLUS

DOCUMENT NUMBER: 120:77293

TITLE: Substituted pyrido[2,3-d]pyrimidines as herbicide antidotes

INVENTOR(S): Bratz, Matthias; Kober, Reiner; Seele, Rainer; Saupe, Thomas; Meyer, Norbert; Walker, Nigel; Landes, Andreas; Walter, Helmut

PATENT ASSIGNEE(S): Germany

SOURCE: Can. Pat. Appl., 211 pp.

CODEN: CPXXEB

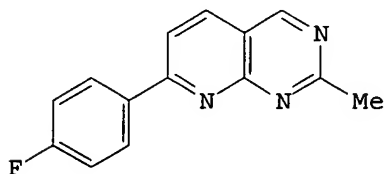
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2078469	AA	19930319	CA 1992-2078469	1992 0917
DE 4131029	A1	19930729	DE 1991-4131029	1991 0918
EP 537463	A2	19930421	EP 1992-114978	1992 0902
EP 537463	A3	19930526		
R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL				
US 5597776	A	19970128	US 1995-419518	1995 0410
PRIORITY APPLN. INFO.:			DE 1991-4131029	A 1991 0918
			US 1992-946516	B1 1992 0916
OTHER SOURCE(S):		MARPAT 120:77293		
GI				



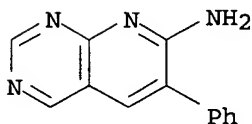
I

AB The title compds., pyrido[2,3-d]pyrimidines, and their uses in herbicides or as herbicide antidotes are claimed. For example, herbicides containing pyrido[2,3-d]pyrimidines and 2-[(4-heteroaryl)oxy]phenoxycarboxylic acid or 2-(4-aryloxy)phenoxycarboxylic acid are claimed. The use of said compds. on corn, barley, wheat, rice or millet is claimed. Condensation of 4-amino-5-formyl-2-methylpyrimidine with 4-fluoroacetophenone gave the example compound 7-(4-fluorophenyl)-2-methylpyrido[2,3-d]pyrimidine (I).

IT 76574-53-3P 76574-54-4P 76574-55-5P
 76574-57-7P 76574-60-2P 76574-65-7P
 76574-67-9P 76574-68-0P 76574-69-1P
 76574-70-4P 76574-71-5P 76574-73-7P
 76574-75-9P 76574-78-2P 76574-80-6P
 76574-90-8P 76574-91-9P 76574-92-0P
 77206-69-0P 77206-70-3P 77206-80-5P
 77206-81-6P 77206-85-0P 95769-05-4P
 124800-72-2P 124802-42-2P 124802-43-3P
 124802-44-4P 124802-45-5P 124802-46-6P
 124802-47-7P 124802-48-8P 124802-50-2P
 124802-55-7P 124802-56-8P 124802-57-9P
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 151326-53-3P 151326-54-4P 151326-55-5P
 151326-56-6P 151326-57-7P 151326-58-8P
 (preparation of, as herbicide antidote)

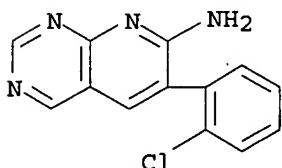
RN 76574-53-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-phenyl- (9CI) (CA INDEX NAME)



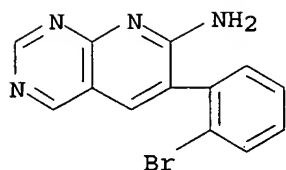
RN 76574-54-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-chlorophenyl)- (9CI) (CA INDEX NAME)

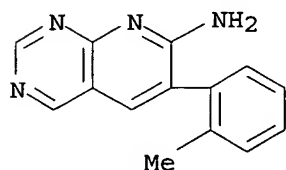


RN 76574-55-5 HCAPLUS

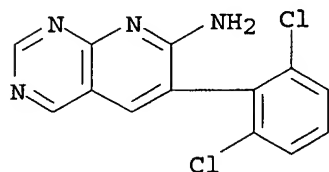
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



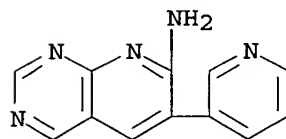
RN 76574-57-7 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-methylphenyl)- (9CI) (CA INDEX NAME)



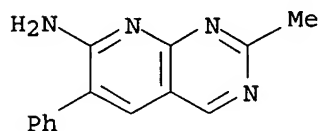
RN 76574-60-2 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)



RN 76574-65-7 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(3-pyridinyl)- (9CI) (CA INDEX NAME)

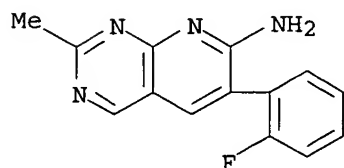


RN 76574-67-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-phenyl- (9CI) (CA INDEX NAME)

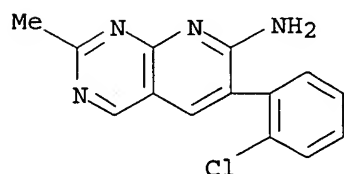


RN 76574-68-0 HCAPLUS

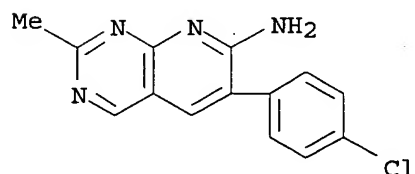
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-fluorophenyl)-2-methyl- (9CI)
(CA INDEX NAME)



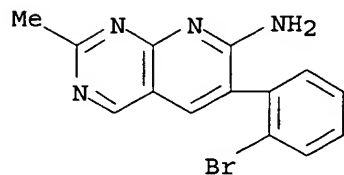
RN 76574-69-1 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-chlorophenyl)-2-methyl- (9CI)
(CA INDEX NAME)



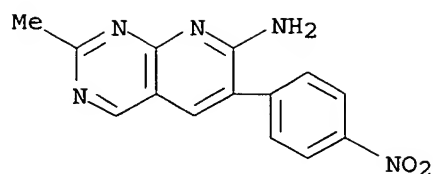
RN 76574-70-4 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(4-chlorophenyl)-2-methyl- (9CI)
(CA INDEX NAME)



RN 76574-71-5 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromophenyl)-2-methyl- (9CI)
(CA INDEX NAME)

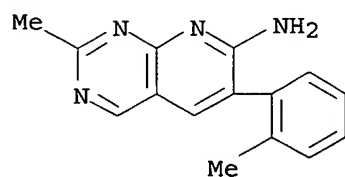


RN 76574-73-7 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-(4-nitrophenyl)- (9CI)
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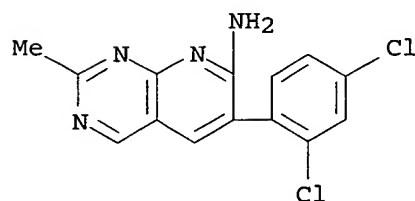
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CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-(2-methylphenyl)- (9CI)
(CA INDEX NAME)



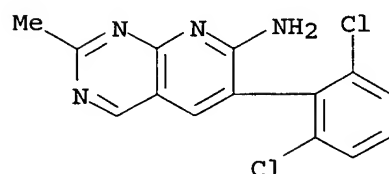
RN 76574-78-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,4-dichlorophenyl)-2-methyl-
(9CI) (CA INDEX NAME)



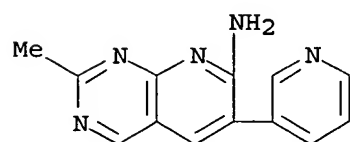
RN 76574-80-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2-methyl-
(9CI) (CA INDEX NAME)

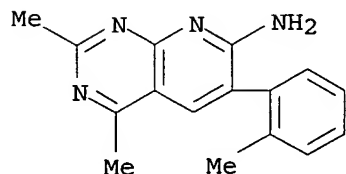


RN 76574-90-8 HCAPLUS

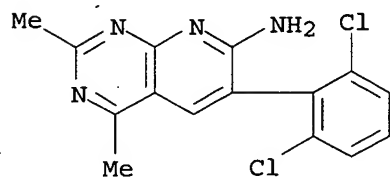
CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-(3-pyridinyl)- (9CI)
(CA INDEX NAME)



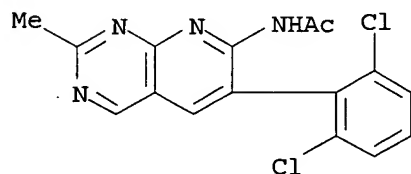
RN 76574-91-9 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 2,4-dimethyl-6-(2-methylphenyl)-
(9CI) (CA INDEX NAME)



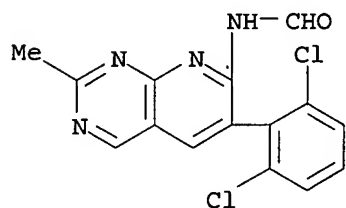
RN 76574-92-0 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2,4-dimethyl- (9CI) (CA INDEX NAME)



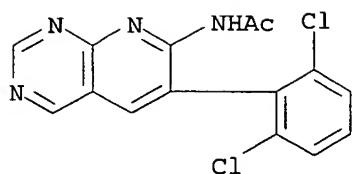
RN 77206-69-0 HCAPLUS
CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 77206-70-3 HCAPLUS
CN Formamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

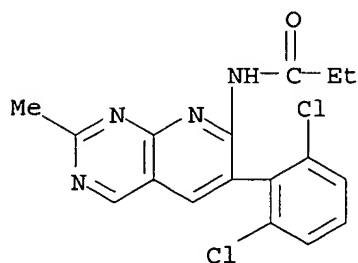


RN 77206-80-5 HCAPLUS
CN Acetamide, N-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-
(9CI) (CA INDEX NAME)



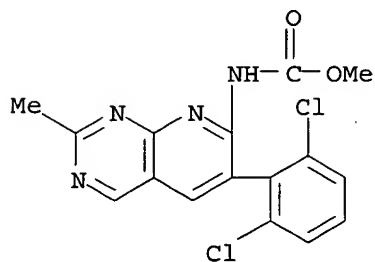
RN 77206-81-6 HCAPLUS

CN Propanamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



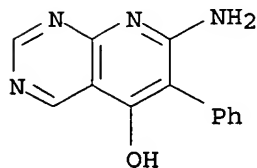
RN 77206-85-0 HCAPLUS

CN Carbamic acid, [6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-, methyl ester (9CI) (CA INDEX NAME)



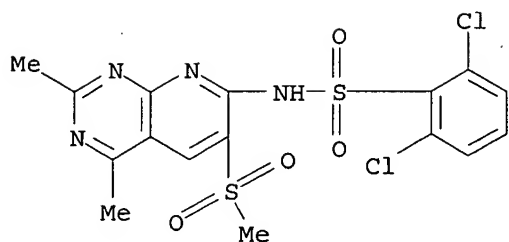
RN 95769-05-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-5-ol, 7-amino-6-phenyl- (7CI, 9CI) (CA INDEX NAME)



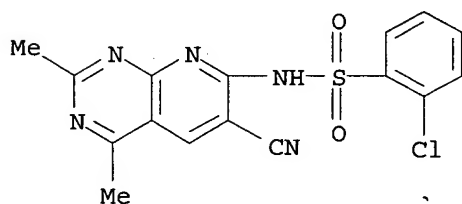
RN 124800-72-2 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



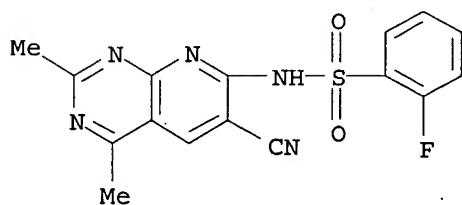
RN 124802-42-2 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



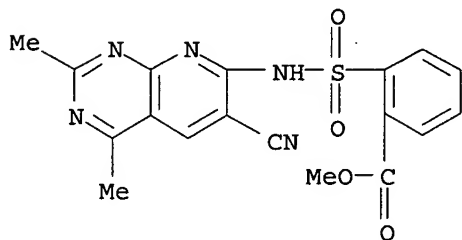
RN 124802-43-3 HCAPLUS

CN Benzenesulfonamide, N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)-2-fluoro- (9CI) (CA INDEX NAME)



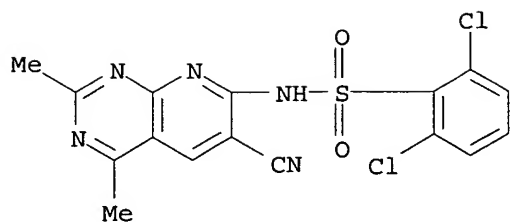
RN 124802-44-4 HCAPLUS

CN Benzoic acid, 2-[[[6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



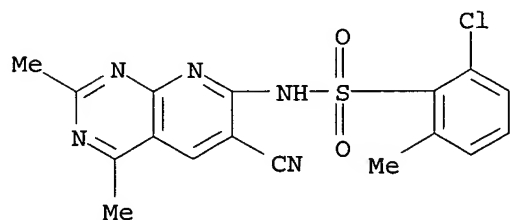
RN 124802-45-5 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



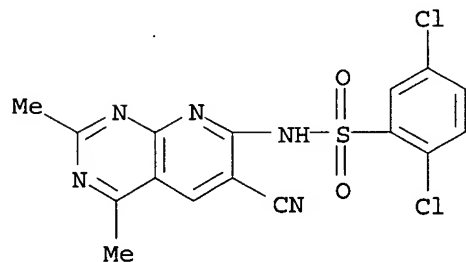
RN 124802-46-6 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)-6-methyl- (9CI) (CA INDEX NAME)



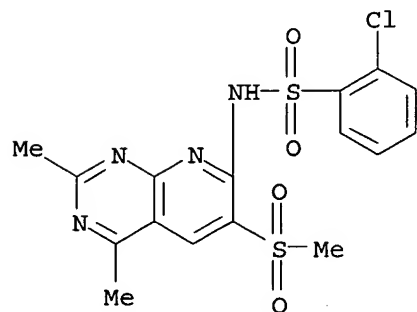
RN 124802-47-7 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



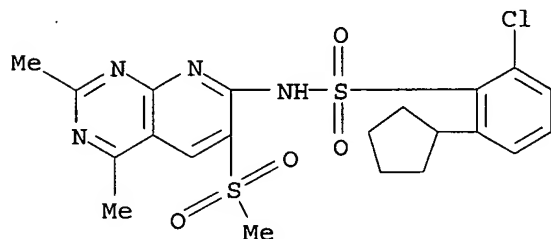
RN 124802-48-8 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



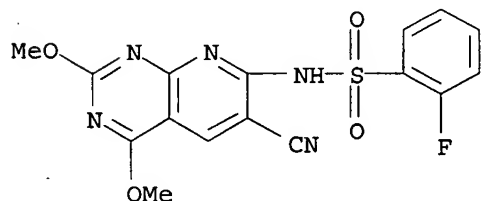
RN 124802-50-2 HCAPLUS

CN Benzenesulfonamide, 2-chloro-6-cyclopentyl-N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



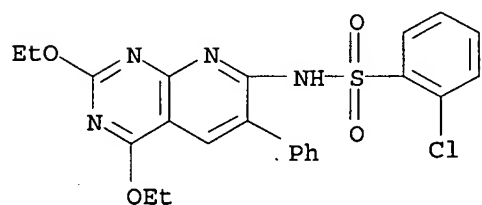
RN 124802-55-7 HCAPLUS

CN Benzenesulfonamide, N-(6-cyano-2,4-dimethoxypyrido[2,3-d]pyrimidin-7-yl)-2-fluoro- (9CI) (CA INDEX NAME)



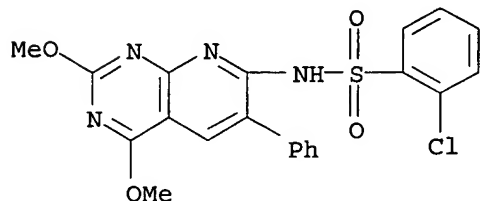
RN 124802-56-8 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(2,4-diethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



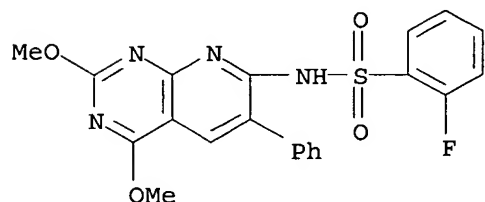
RN 124802-57-9 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(2,4-dimethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



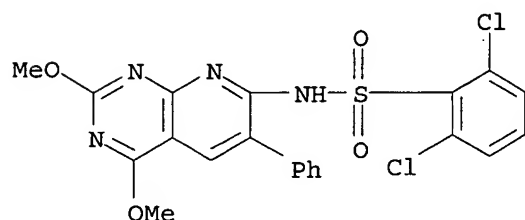
RN 124802-58-0 HCAPLUS

CN Benzenesulfonamide, N-(2,4-dimethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)-2-fluoro- (9CI) (CA INDEX NAME)



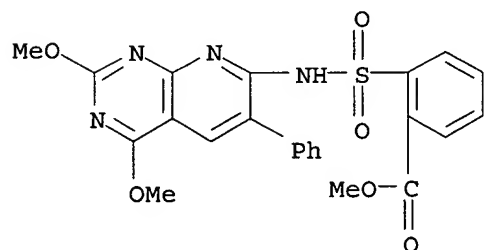
RN 124802-59-1 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-(2,4-dimethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



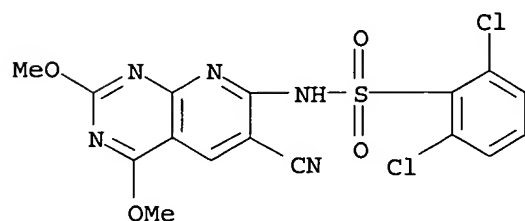
RN 124802-60-4 HCAPLUS

CN Benzoic acid, 2-[[(2,4-dimethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



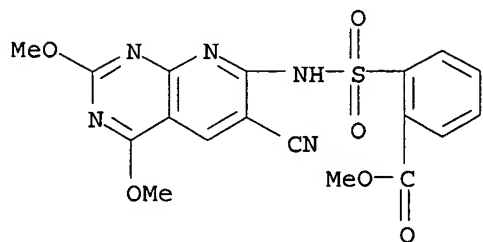
RN 124802-61-5 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-(6-cyano-2,4-dimethoxypyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



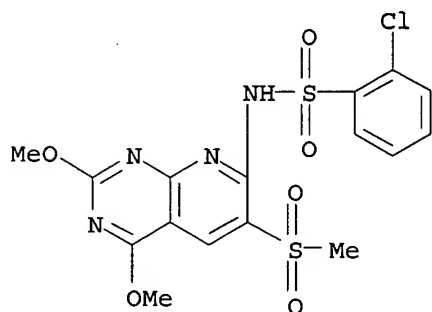
RN 124802-62-6 HCAPLUS

CN Benzoic acid, 2-[[[6-cyano-2,4-dimethoxypyrido[2,3-d]pyrimidin-7-yl)amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



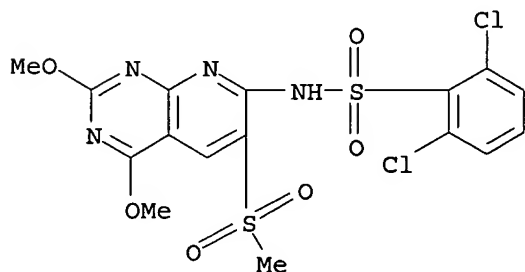
RN 124802-63-7 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



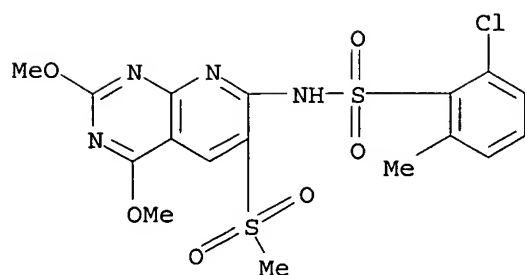
RN 124802-64-8 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

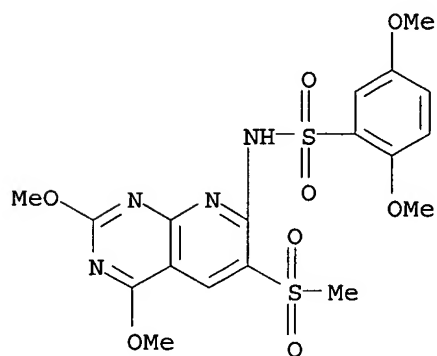


RN 124802-66-0 HCAPLUS

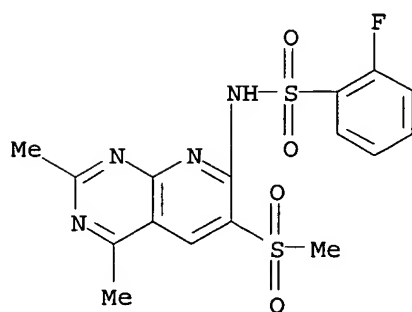
CN Benzenesulfonamide, 2-chloro-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]-6-methyl- (9CI) (CA INDEX NAME)



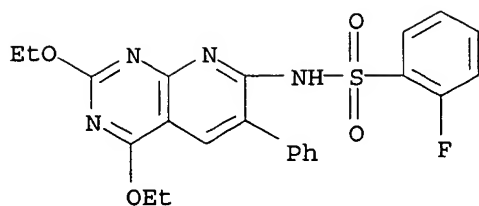
RN 124802-67-1 HCAPLUS
 CN Benzenesulfonamide, N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]-2-chloro-1-methyl- (9CI) (CA INDEX NAME)



RN 124850-78-8 HCAPLUS
 CN Benzenesulfonamide, N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]-2-fluoro- (9CI) (CA INDEX NAME)

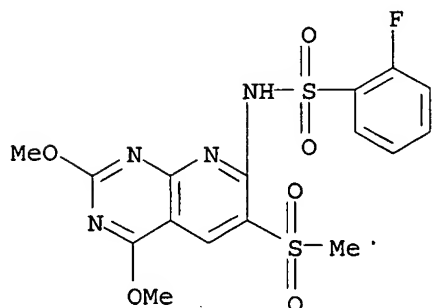


RN 124850-79-9 HCAPLUS
 CN Benzenesulfonamide, N-(2,4-diethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)-2-fluoro- (9CI) (CA INDEX NAME)



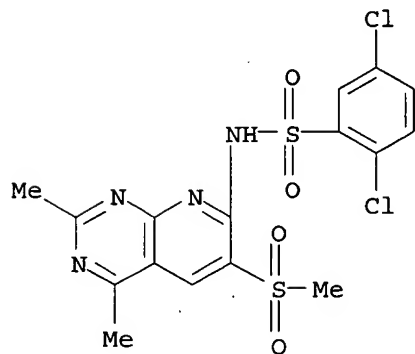
RN 124850-81-3 HCAPLUS

CN Benzenesulfonamide, N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]-2-fluoro- (9CI) (CA INDEX NAME)



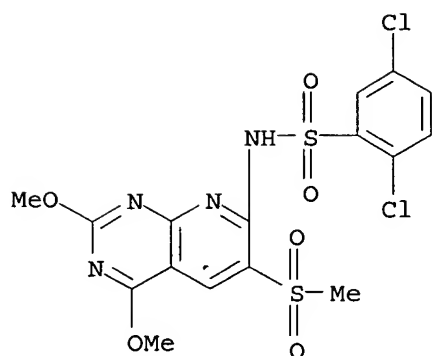
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CN Benzenesulfonamide, 2,5-dichloro-N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



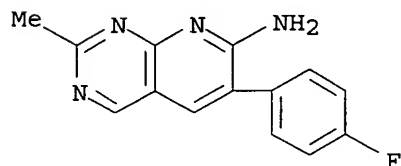
RN 125668-45-3 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



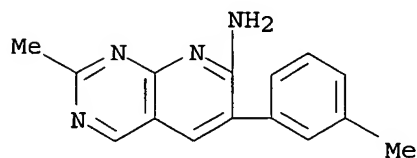
RN 151325-66-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(4-fluorophenyl)-2-methyl- (9CI)
(CA INDEX NAME)



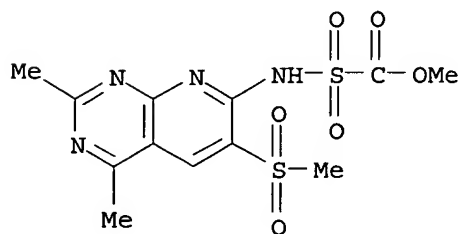
RN 151325-67-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-(3-methylphenyl)- (9CI)
(CA INDEX NAME)



RN 151326-28-2 HCAPLUS

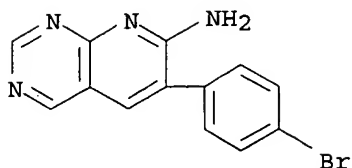
CN Formic acid, [[[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



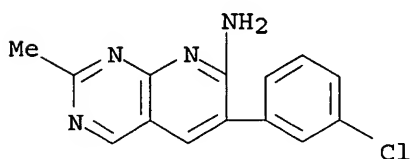
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(4-bromophenyl)- (9CI) (CA

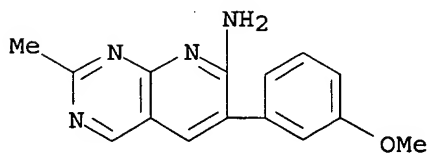
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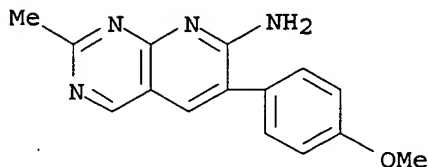
RN 151326-47-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(3-chlorophenyl)-2-methyl- (9CI)
(CA INDEX NAME)

RN 151326-48-6 HCAPLUS

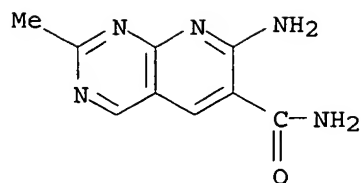
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(3-methoxyphenyl)-2-methyl-
(9CI) (CA INDEX NAME)

RN 151326-49-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(4-methoxyphenyl)-2-methyl-
(9CI) (CA INDEX NAME)

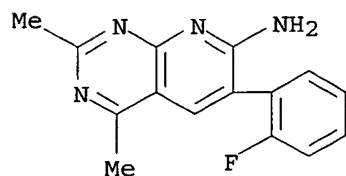
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CN Pyrido[2,3-d]pyrimidine-6-carboxamide, 7-amino-2-methyl- (9CI)
(CA INDEX NAME)



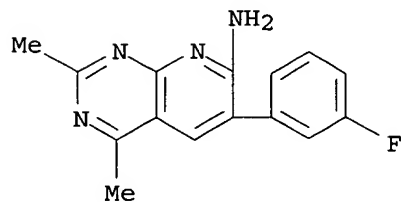
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-fluorophenyl)-2,4-dimethyl-
(9CI) (CA INDEX NAME)



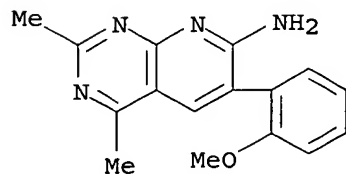
RN 151326-52-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(3-fluorophenyl)-2,4-dimethyl-
(9CI) (CA INDEX NAME)



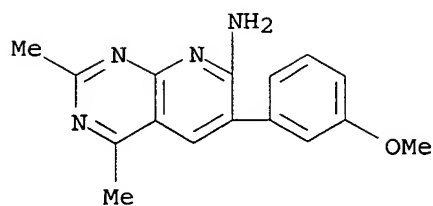
RN 151326-53-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-methoxyphenyl)-2,4-dimethyl-
(9CI) (CA INDEX NAME)



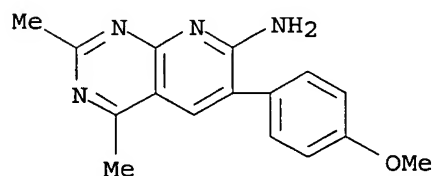
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(3-methoxyphenyl)-2,4-dimethyl-
(9CI) (CA INDEX NAME)



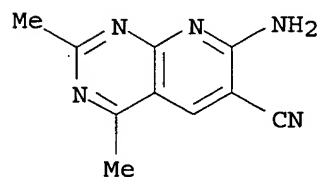
RN 151326-55-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(4-methoxyphenyl)-2,4-dimethyl-
(9CI) (CA INDEX NAME)



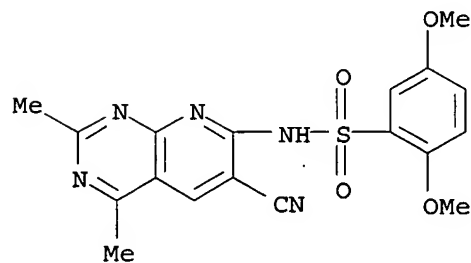
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CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-2,4-dimethyl-
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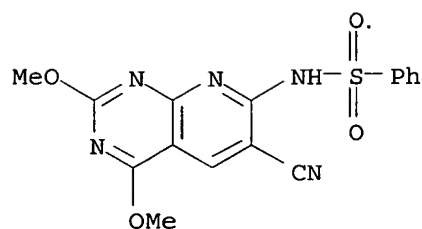
RN 151326-57-7 HCAPLUS

CN Benzenesulfonamide, N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-
7-yl)-2,5-dimethoxy- (9CI) (CA INDEX NAME)



RN 151326-58-8 HCAPLUS

CN Benzenesulfonamide, N-(6-cyano-2,4-dimethoxypyrido[2,3-d]pyrimidin-
7-yl)- (9CI) (CA INDEX NAME)



IC ICM C07D471-04
ICS A01N025-32

CC 28-20 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

IT 23126-70-7P 54595-53-8P 54595-54-9P 54595-55-0P
54595-56-1P 54595-57-2P 55635-13-7P 74051-80-2P
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138734-17-5P			

(preparation of, as herbicide antidote)

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151433-65-7P	151433-66-8P	152159-64-3P	

(preparation of, as herbicide antidote)

L36 ANSWER 31 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1992:490314 HCAPLUS
 DOCUMENT NUMBER: 117:90314
 TITLE: pyrido[2,3-d]pyrimidin-2,4(1H,3H)-diones,
 methods for their preparation and herbicides
 containing them
 INVENTOR(S): Hagen, Helmut; Raatz, Peter; Walter, Helmut;
 Landes, Andreas
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 25 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4035479	A1	19920514	DE 1990-4035479	1990 1108
WO 9208719	A1	19920529	WO 1991-EP2055	1991 1030
EP 556225	A1	19930825	EP 1991-918853	1991 1030
HU 64760	A2	19940228	HU 1993-1337	1991 1030
JP 06502152	T2	19940310	JP 1991-517111	1991 1030
PRIORITY APPLN. INFO.:			DE 1990-4035479	A 1990 1108
			WO 1991-EP2055	W 1991 1030

OTHER SOURCE(S): MARPAT 117:90314
 AB Certain pyrido[2,3-d]pyrimidin-2,4(1H,3H)-diones are claimed.
 Processes for the preparation of said compds. are claimed. E.g., a
 method for their preparation comprises the cyclocondensation reaction
 of an aminopyrimidinedione with a β -chloroalkenal or the
 cyclocondensation reaction of a (vinylamino)pyrimidinedione with a
 β -alkoxyacrylate. Herbicides containing these
 pyrido[2,3-d]pyrimidin-2,4(1H,3H)-diones in addition to other
 herbicidal agents such as phenoxyacetate derivs. or cyclohexanone
 derivs. are claimed. The pyrido[2,3-d]pyrimidin-2,4(1H,3H)-diones

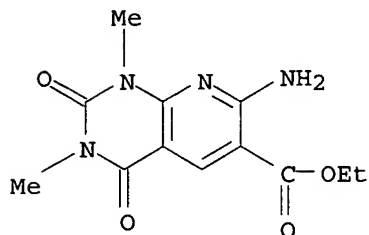
are herbicide antidotes. Cyclocondensation of 6-amino-1,3-dimethyl-2,4(1H,3H)pyrimidinedione (11.6 g) with 3-chloro-2-methyl-2-pentenal (13.2 g) gave 5-ethyl-1,3,6-trimethyl-2,4(1H,3H)pyrimidinedione in 67% yield.

IT 84725-60-0

(cyclocondensation reaction of, with propionic anhydride)

RN 84725-60-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)

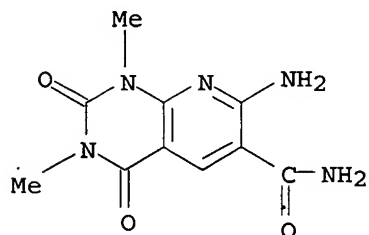


IT 99319-16-1P 142557-41-3P 142557-52-6P
142557-55-9P 142557-58-2P 142557-60-6P
142557-61-7P 142557-63-9P 142557-64-0P
142557-65-1P

(preparation of, as herbicide antidote)

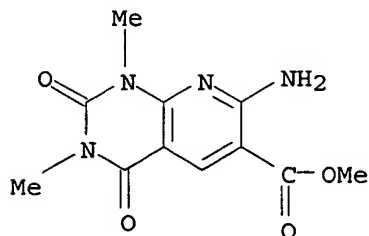
RN 99319-16-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxamide, 7-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo- (9CI) (CA INDEX NAME)

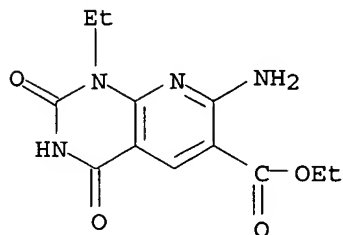


RN 142557-41-3 HCAPLUS

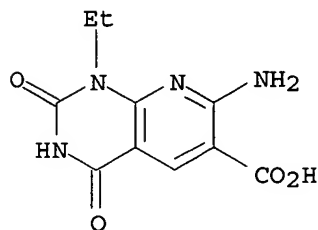
CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)



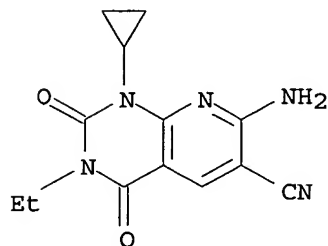
RN 142557-52-6 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1-ethyl-1,2,3,4-tetrahydro-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



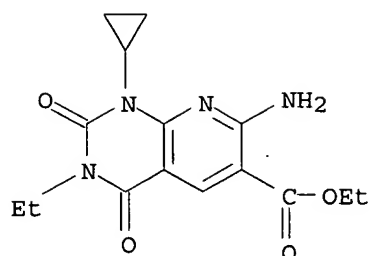
RN 142557-55-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1-ethyl-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 142557-58-2 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1-cyclopropyl-3-ethyl-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)

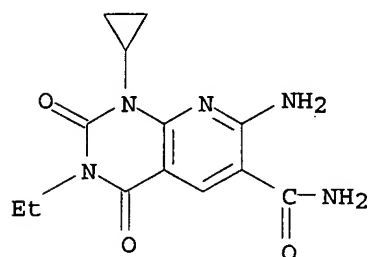


RN 142557-60-6 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1-cyclopropyl-3-ethyl-1,2,3,4-tetrahydro-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



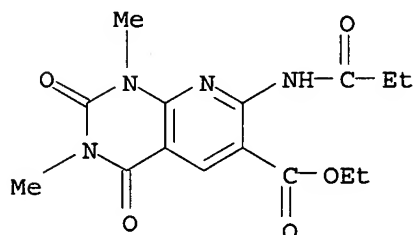
RN 142557-61-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxamide, 7-amino-1-cyclopropyl-3-ethyl-1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



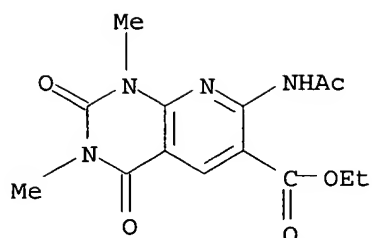
RN 142557-63-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-7-[(1-oxopropyl)amino]-, ethyl ester (9CI) (CA INDEX NAME)



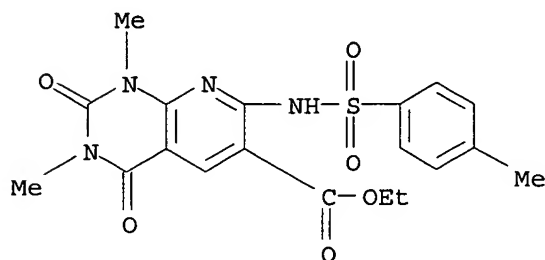
RN 142557-64-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-(acetylamino)-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 142557-65-1 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 1,2,3,4-tetrahydro-1,3-dimethyl-7-[[4-methylphenyl]sulfonyl]amino]-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



IC ICM C07D471-04

ICS A01N043-90

ICA C07D213-63; C07D241-44; C07D263-58; C07D277-68; C07D521-00

ICI C07D471-04, C07D221-00, C07D239-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

IT 84725-60-0

(cyclocondensation reaction of, with propionic anhydride)

IT 57842-79-2P 59797-01-2P 67362-48-5P 92978-15-9P

92978-16-0P 99319-16-1P 99319-17-2P 113290-29-2P

113290-30-5P 116121-60-9P 142557-24-2P 142557-25-3P

142557-26-4P 142557-27-5P 142557-28-6P 142557-29-7P

142557-30-0P 142557-31-1P 142557-32-2P 142557-33-3P

142557-34-4P 142557-35-5P 142557-36-6P 142557-37-7P

142557-38-8P 142557-39-9P 142557-40-2P 142557-41-3P

142557-42-4P 142557-43-5P 142557-44-6P 142557-45-7P

142557-46-8P 142557-47-9P 142557-48-0P 142557-49-1P

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142557-58-2P 142557-59-3P 142557-60-6P

142557-61-7P 142557-62-8P 142557-63-9P

142557-64-0P 142557-65-1P 142557-66-2P

(preparation of, as herbicide antidote)

L36 ANSWER 32 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

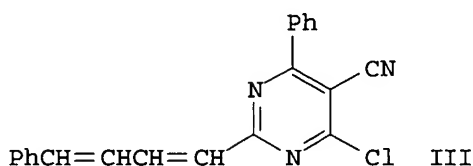
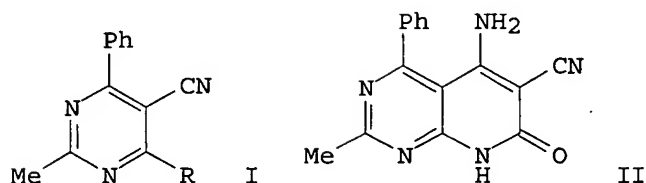
ACCESSION NUMBER: 1992:448480 HCAPLUS

DOCUMENT NUMBER: 117:48480

TITLE: Synthesis and biological activities of some new pyrimidine derivatives

AUTHOR(S): Seada, M.; Abdel-Halim, A. M.; Ibrahim, S. S.;

Abdel-Megid, M.
 CORPORATE SOURCE: Fac. Educat., Ain Shams Univ., Roxy, Egypt
 SOURCE: Asian Journal of Chemistry (1992),
 4(3), 544-52
 CODEN: AJCHEW; ISSN: 0970-7077
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



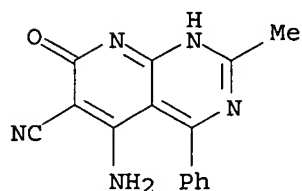
AB Synthesis of 4-chloro-5-cyano-2-methyl-6-phenylpyrimidine (I, R = Cl) and its reactions with acetamide hydrochloride, guanidine hydrochloride, cyanoacetamide, benzil monohydrazone, sodium azide, semicarbazide hydrochloride, acid hydrazides, active methylene compds., aromatic amines and thiourea were investigated. Also, the reactions of 5-cyano-2-methyl-6-phenyl-4(3H)-pyrimidinethione I (R = SH) with Et iodide, Et chloroacetate, phenacyl bromide, acrylonitrile and heterocyclic chlorides are reported. A number of products from these two series of reactions, including aminocyanopyridopyrimidinone II and (phenylbutadienyl)pyrimidine III were evaluated for bactericidal and **fungicidal** activity.

IT 142271-07-6P

(preparation of)

RN 142271-07-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 5-amino-1,7-dihydro-2-methyl-7-oxo-4-phenyl- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 10

ST pyrimidine deriv prepn bactericide **fungicide**;
 chlorocyanomethylphenylpyrimidine cyclocondensation amination;
 pyrimidinethione cyanomethylphenyl alkylation

IT Bactericides, Disinfectants, and Antiseptics

Fungicides and Fungistats

(pyrimidine derivs.)

IT 142271-06-5P 142271-14-5P 142271-15-6P 142271-18-9P
 142271-19-0P 142271-20-3P 142271-24-7P
 (preparation and bactericidal and fungicidal activity of)
 IT 142271-07-6P 142271-08-7P 142271-09-8P 142271-10-1P
 142271-12-3P 142271-13-4P 142271-16-7P 142271-17-8P
 142271-21-4P 142271-22-5P 142271-23-6P
 (preparation of)

L36 ANSWER 33 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:426486 HCAPLUS

DOCUMENT NUMBER: 117:26486

TITLE: Synthesis and biological activity of
 1,3-dimethyl-6-nitro-7-
 carboxyalkyl (aryl) aminopyrido[2,3-
 d]pyrimidines

AUTHOR(S): Bystryakova, I. D.; Losev, G. A.; Safonova, T.
 S.

CORPORATE SOURCE: NIKhFI, Novokuznetsk, USSR

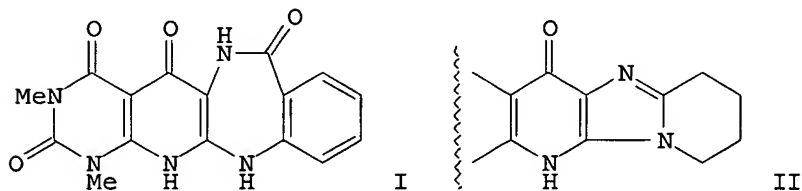
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (
 1992), 26(1), 48-51

CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI

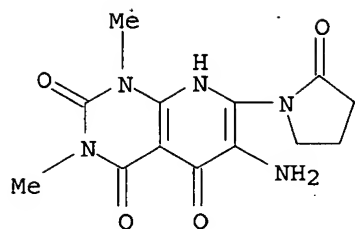


AB The reaction of 1,3-dimethyl-2,4,5-trioxo-6-nitro-7-
 chloropyrido[2,3-d]pyrimidine with aliphatic acids, anthranilic acid
 and its ester gave 7-carboxyalkyl (aryl) aminopyrido[2,3-
 d]pyrimidines; the latter were used to synthesize imidazo and
 (benzo)diazepinopyrido[2,3-d]pyrimidines, e.g. I and II. The
 neoplasm-inhibiting activity of the resulting compds. was determined

IT 141985-51-5P
 (preparation and cyclization of)

RN 141985-51-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidine-2,4,5(1H,3H,8H)-trione,
 6-amino-1,3-dimethyl-7-(2-oxo-1-pyrrolidinyl)- (9CI) (CA INDEX
 NAME)

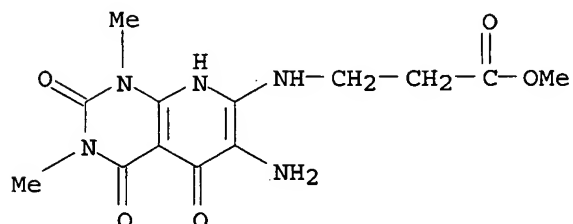


IT 141985-46-8P 141985-48-0P

(preparation and intramol. cyclocondensation of)

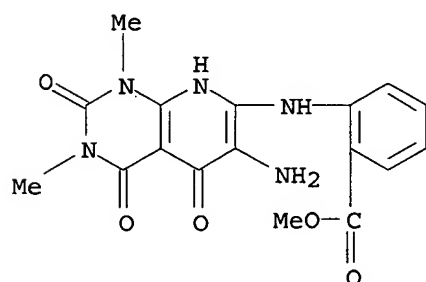
RN 141985-46-8 HCAPLUS

CN β -Alanine, N-(6-amino-1,2,3,4,5,8-hexahydro-1,3-dimethyl-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)-, methyl ester (9CI) (CA INDEX NAME)



RN 141985-48-0 HCAPLUS

CN Benzoic acid, 2-[(6-amino-1,2,3,4,5,8-hexahydro-1,3-dimethyl-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)amino]-, methyl ester (9CI) (CA INDEX NAME)

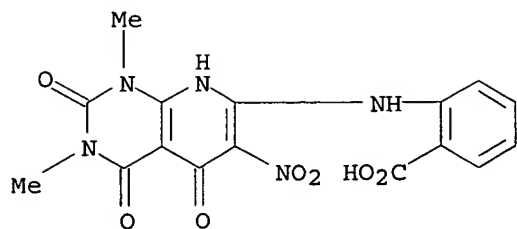


IT 141985-43-5P

(preparation and neoplasm-inhibiting activity of)

RN 141985-43-5 HCAPLUS

CN Benzoic acid, 2-[(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)amino]- (9CI) (CA INDEX NAME)

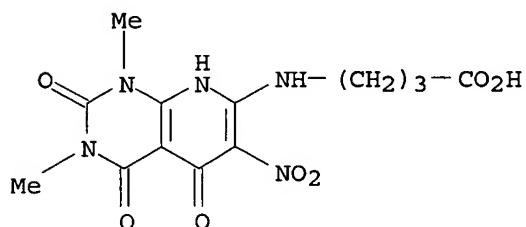


IT 141985-40-2P

(preparation and reactions of)

RN 141985-40-2 HCAPLUS

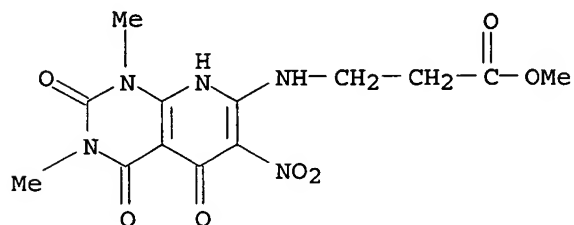
CN Butanoic acid, 4-[(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)amino]- (9CI) (CA INDEX NAME)



IT 141985-45-7P

(preparation and reduction of)

RN 141985-45-7 HCAPLUS

CN β -Alanine, N-(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)-, methyl ester (9CI) (CA INDEX NAME)

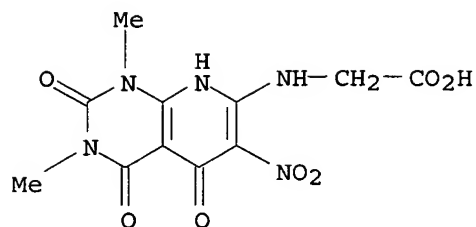
IT 141985-38-8P 141985-41-3P 141985-42-4P

141985-53-7P

(preparation of)

RN 141985-38-8 HCAPLUS

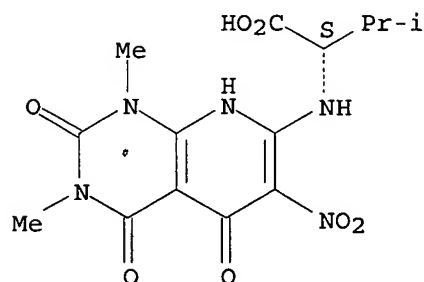
CN Glycine, N-(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



RN 141985-41-3 HCAPLUS

CN L-Valine, N-(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)

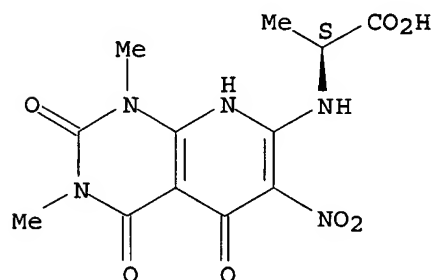
Absolute stereochemistry.



RN 141985-42-4 HCAPLUS

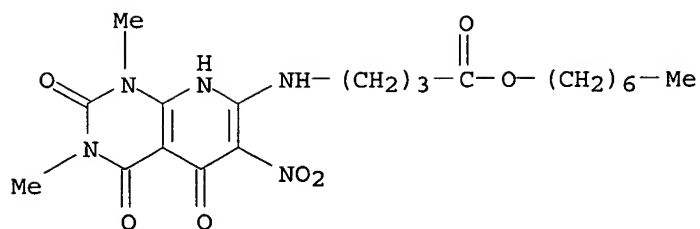
CN L-Alanine, N-(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

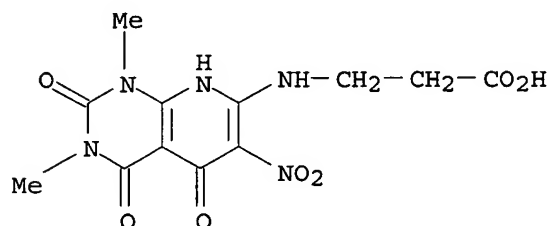


RN 141985-53-7 HCAPLUS

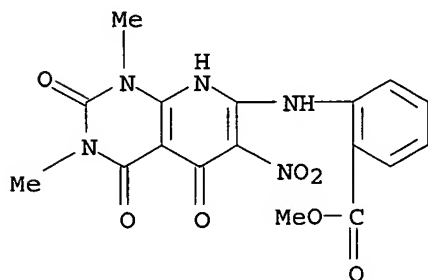
CN Butanoic acid, 4-[(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)amino]-, heptyl ester (9CI) (CA INDEX NAME)



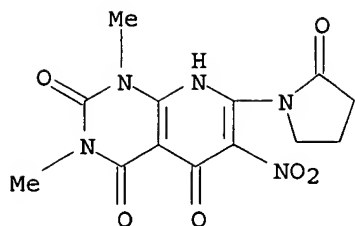
IT **141985-39-9P 141985-44-6P**
 (preparation, esterification, and neoplasm-inhibiting activity of)
 RN 141985-39-9 HCAPLUS
 CN β -Alanine, N-(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



RN 141985-44-6 HCAPLUS
 CN Benzoic acid, 2-[(1,2,3,4,5,8-hexahydro-1,3-dimethyl-6-nitro-2,4,5-trioxypyrido[2,3-d]pyrimidin-7-yl)amino]-, methyl ester (9CI) (CA INDEX NAME)



IT **141985-50-4P**
 (preparation, reduction, and neoplasm-inhibiting activity of)
 RN 141985-50-4 HCAPLUS
 CN Pyrido[2,3-d]pyrimidine-2,4,5(1H,3H,8H)-trione, 1,3-dimethyl-6-nitro-7-(2-oxo-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1
 IT 141985-51-5P
 (preparation and cyclization of)
 IT 141985-46-8P 141985-48-0P
 (preparation and intramol. cyclocondensation of)
 IT 141985-43-5P
 (preparation and neoplasm-inhibiting activity of)
 IT 141985-40-2P
 (preparation and reactions of)
 IT 141985-45-7P
 (preparation and reduction of)
 IT 141985-38-8P 141985-41-3P 141985-42-4P
 141985-47-9P 141985-49-1P 141985-52-6P 141985-53-7P
 (preparation of)
 IT 141985-39-9P 141985-44-6P
 (preparation, esterification, and neoplasm-inhibiting activity of)
 IT 141985-50-4P
 (preparation, reduction, and neoplasm-inhibiting activity of)

L36 ANSWER 34 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:55909 HCAPLUS

DOCUMENT NUMBER: 112:55909

TITLE: Preparation of arylsulfonamidonaphthyridines and -pyridopyrimidines as herbicides

INVENTOR(S): Saupe, Thomas; Klebe, Gerhard; Schirmer, Ulrich; Paul, Gerhard; Kober, Reiner; Wuerzer, Bruno; Berghaus, Rainer; Meyer, Norbert; Westphalen, Karl Otto

PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 110 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 329012	A2	19890823	EP 1989-102209	1989 0209
EP 329012	A3	19910403		
R: CH, DE, FR, GB, IT, LI				
DE 3804990	A1	19890831	DE 1988-3804990	1988

				0218
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US 4881969	A	19891121	US 1989-310753	
				1989
				0215
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JP 01254682	A2	19891011	JP 1989-36449	
				1989
				0217
			<--	
US 4999045	A	19910312	US 1989-378985	
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US 4999044	A	19910312	US 1989-378986	
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PRIORITY APPLN. INFO.:			DE 1988-3804990	A
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			US 1989-310753	A3
				1989
				0215

OTHER SOURCE(S): CASREACT 112:55909; MARPAT 112:55909

GI For diagram(s), see printed CA Issue.

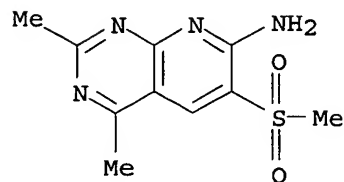
AB The title compds. [I; R1 = H, CN, (substituted) C1-8 alkyl, C2-5 alkenyl, SOR4, SO2R4, C2-4 alkynyl, COR4; R2, R3 = NO2, OH, CO2H, SH, halo, (substituted) C1-4 alkyl, C3-6 cycloalkyl, C1-4 alkoxy or alkylthio, C2-5 alkenyloxy, C2-4 alkynyloxy, amino, etc.; R4 = C1-4 alkyl, -alkoxy, -alkylthio, aryl, aryloxy, arylthio, CONR5R6; R5, R6 = C1-4 alkyl, C3-6 cycloalkyl, C2-5 alkenyl, aryl, arylalkyl, C1-4 alkylcarbonyl; R5R6 = C2-6 alkylene; W, X, Y, Z = N, CR7; R7 = hydrazino, R2; A = (substituted) (hetero)aryl; n = 0, 1], useful as herbicides (no data), were prepared Thus, 2-amino-5,7-dimethyl-1,8-naphthyridine in pyridine was treated dropwise with 2-ClC6H4SO2Cl at 40-50°. The mixture was stirred 1 h at 75° and refluxed for 1.5 h to give 2-chloro-N-(5,7-dimethyl-1,8-naphthyridin-2-yl)benzenesulfonamide. I were said to be effective against *Amaranthus retroflexus*, *Centaurea cyanus*, *Chenopodium album*, *Cyperus iria*, and *Ipomoea* spp.

IT 124850-82-4P

(preparation and acylation of, by dichlorobenzenesulfonyl chloride, in preparation of herbicide)

RN 124850-82-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 2,4-dimethyl-6-(methylsulfonyl)-(9CI) (CA INDEX NAME)

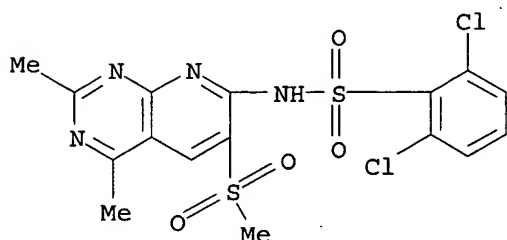


IT 124800-72-2P 124802-42-2P 124802-43-3P
 124802-44-4P 124802-45-5P 124802-46-6P
 124802-47-7P 124802-48-8P 124802-49-9P
 124802-50-2P 124802-54-6P 124802-55-7P
 124802-56-8P 124802-57-9P 124802-58-0P
 124802-59-1P 124802-60-4P 124802-61-5P
 124802-62-6P 124802-63-7P 124802-64-8P
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 124802-74-0P 124850-78-8P 124850-79-9P
 124850-80-2P 124850-81-3P 125668-44-2P
 125668-45-3P

(preparation of, as herbicide)

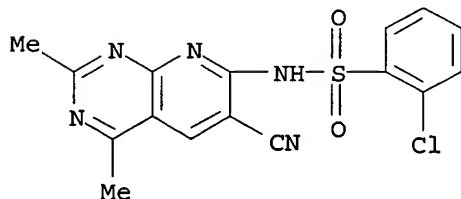
RN 124800-72-2 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



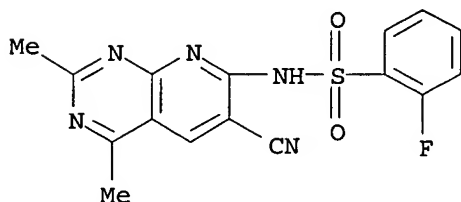
RN 124802-42-2 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



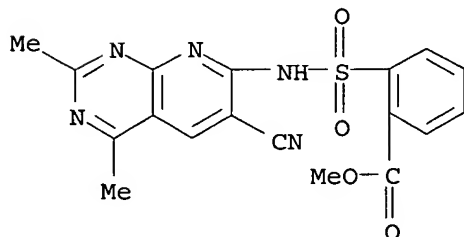
RN 124802-43-3 HCAPLUS

CN Benzenesulfonamide, N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)-2-fluoro- (9CI) (CA INDEX NAME)



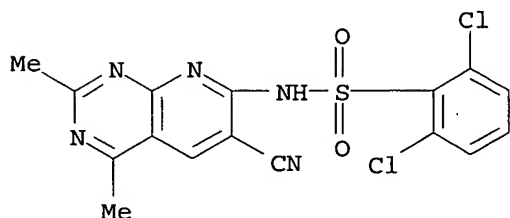
RN 124802-44-4 HCAPLUS

CN Benzoic acid, 2-[(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)amino]sulfonyl-, methyl ester (9CI) (CA INDEX NAME)



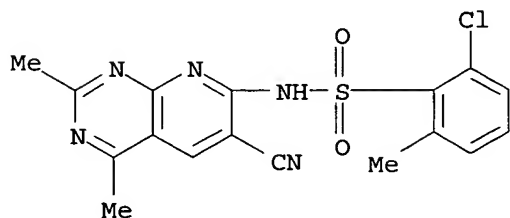
RN 124802-45-5 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



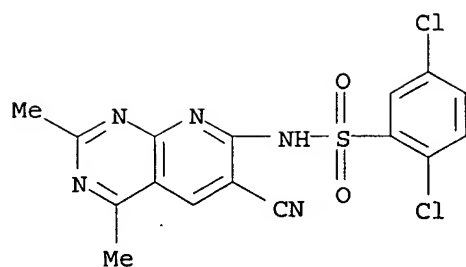
RN 124802-46-6 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)-6-methyl- (9CI) (CA INDEX NAME)



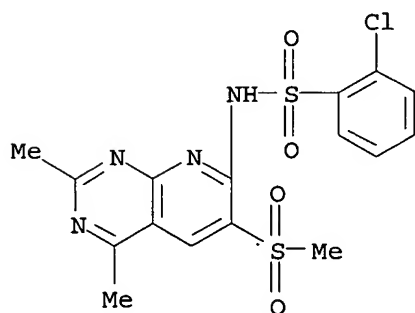
RN 124802-47-7 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-(6-cyano-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



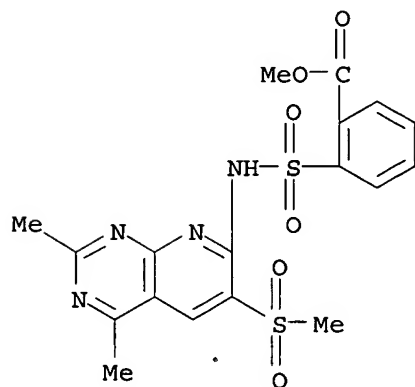
RN 124802-48-8 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



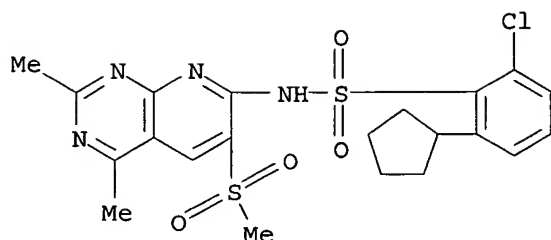
RN 124802-49-9 HCAPLUS

CN Benzoic acid, 2-[[[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



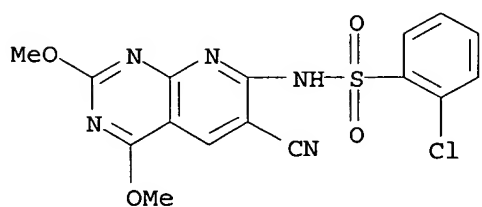
RN 124802-50-2 HCAPLUS

CN Benzenesulfonamide, 2-chloro-6-cyclopentyl-N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



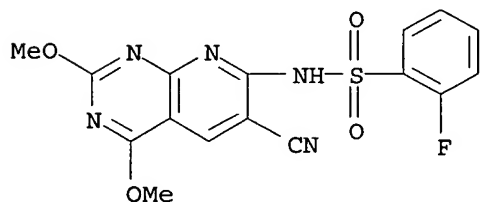
RN 124802-54-6 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(6-cyano-2,4-dimethoxypyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



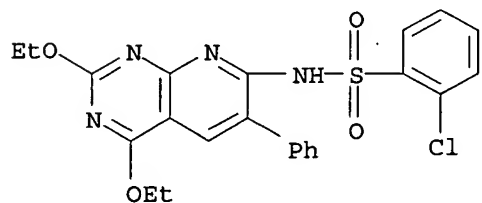
RN 124802-55-7 HCAPLUS

CN Benzenesulfonamide, N-(6-cyano-2,4-dimethoxypyrido[2,3-d]pyrimidin-7-yl)-2-fluoro- (9CI) (CA INDEX NAME)



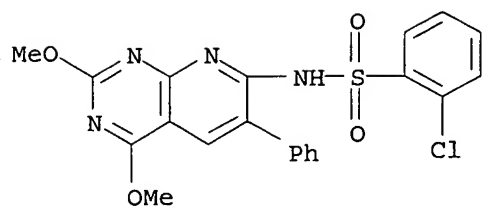
RN 124802-56-8 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(2,4-diethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



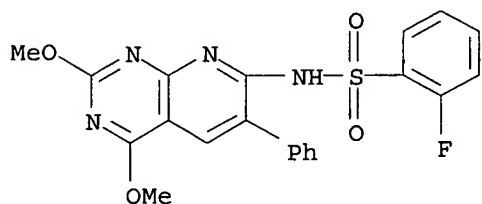
RN 124802-57-9 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(2,4-dimethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



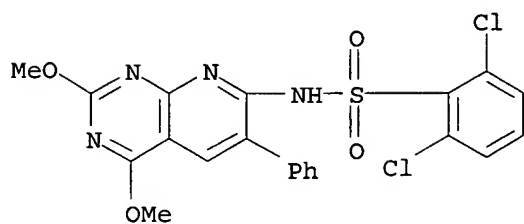
RN 124802-58-0 HCAPLUS

CN Benzenesulfonamide, N-(2,4-dimethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)-2-fluoro- (9CI) (CA INDEX NAME)



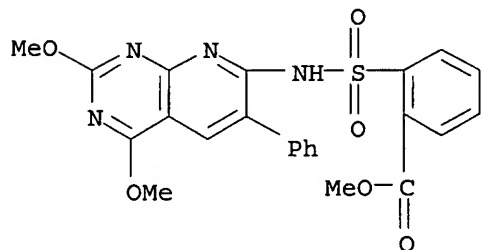
RN 124802-59-1 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-(2,4-dimethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



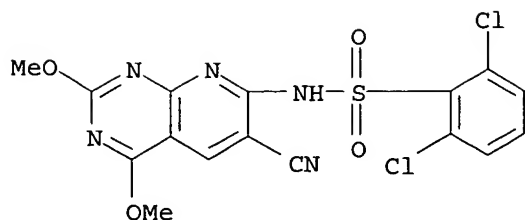
RN 124802-60-4 HCAPLUS

CN Benzoic acid, 2-[[(2,4-dimethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



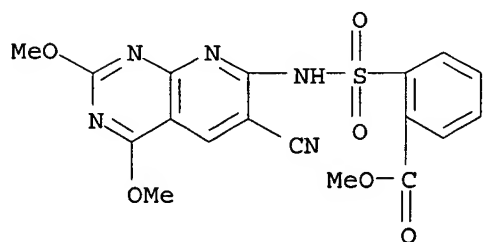
RN 124802-61-5 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-(6-cyano-2,4-dimethoxypyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



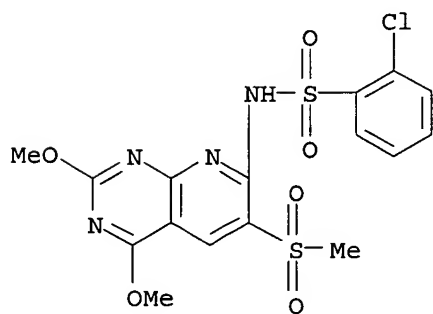
RN 124802-62-6 HCAPLUS

CN Benzoic acid, 2-[[[6-cyano-2,4-dimethoxypyrido[2,3-d]pyrimidin-7-yl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



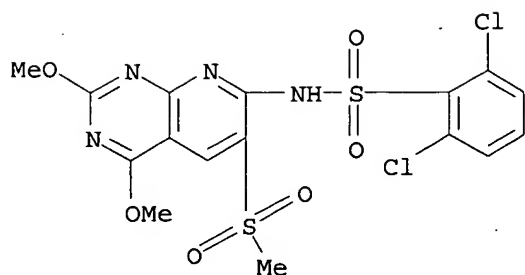
RN 124802-63-7 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



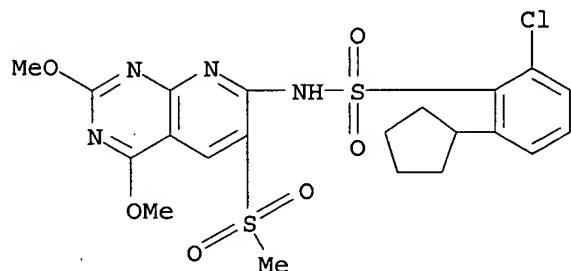
RN 124802-64-8 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



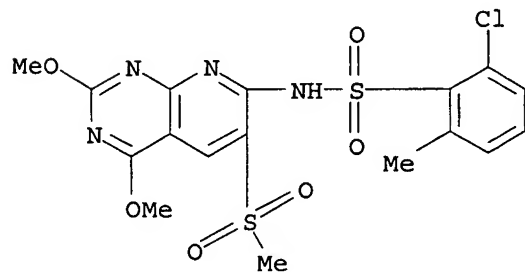
RN 124802-65-9 HCAPLUS

CN Benzenesulfonamide, 2-chloro-6-cyclopentyl-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



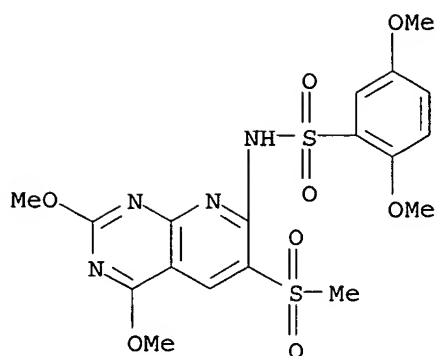
RN 124802-66-0 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]-6-methyl- (9CI) (CA INDEX NAME)



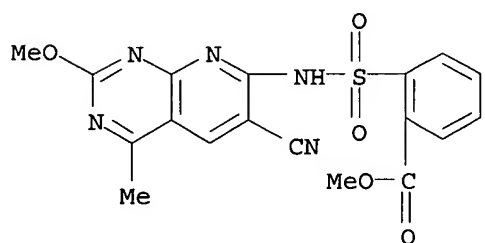
RN 124802-67-1 HCAPLUS

CN Benzenesulfonamide, N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]-2,5-dimethoxy- (9CI) (CA INDEX NAME)



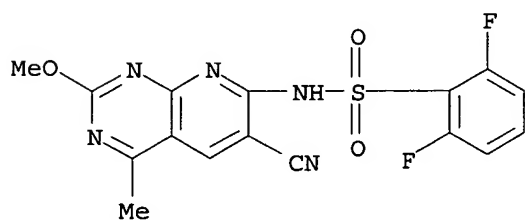
RN 124802-68-2 HCAPLUS

CN Benzoic acid, 2-[[[6-cyano-2-methoxy-4-methylpyrido[2,3-d]pyrimidin-7-yl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



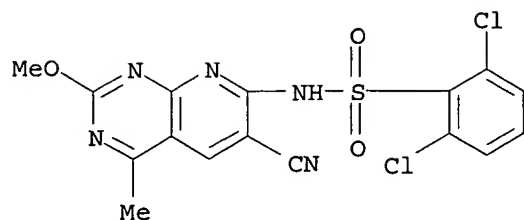
RN 124802-69-3 HCAPLUS

CN Benzenesulfonamide, N-(6-cyano-2-methoxy-4-methylpyrido[2,3-d]pyrimidin-7-yl)-2,6-difluoro- (9CI) (CA INDEX NAME)



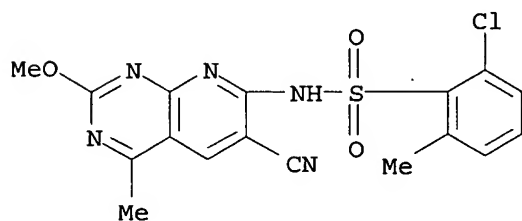
RN 124802-70-6 HCAPLUS

CN Benzenesulfonamide, 2,6-dichloro-N-(6-cyano-2-methoxy-4-methylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



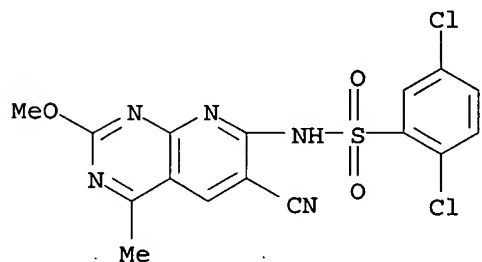
RN 124802-71-7 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(6-cyano-2-methoxy-4-methylpyrido[2,3-d]pyrimidin-7-yl)-6-methyl- (9CI). (CA INDEX NAME)



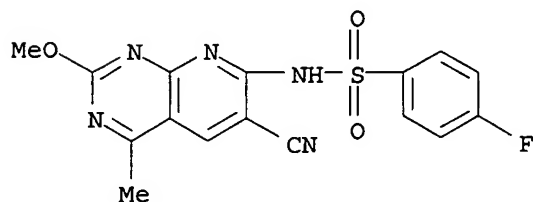
RN 124802-72-8 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-(6-cyano-2-methoxy-4-methylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



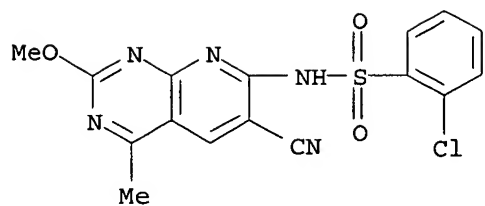
RN 124802-73-9 HCAPLUS

CN Benzenesulfonamide, N-(6-cyano-2-methoxy-4-methylpyrido[2,3-d]pyrimidin-7-yl)-4-fluoro- (9CI) (CA INDEX NAME)



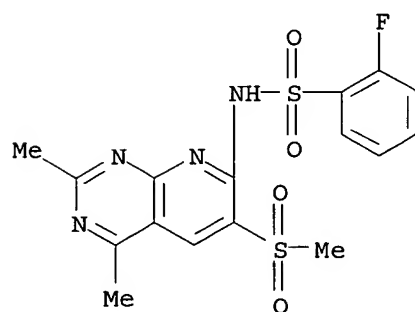
RN 124802-74-0 HCAPLUS

CN Benzenesulfonamide, 2-chloro-N-(6-cyano-2-methoxy-4-methylpyrido[2,3-d]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



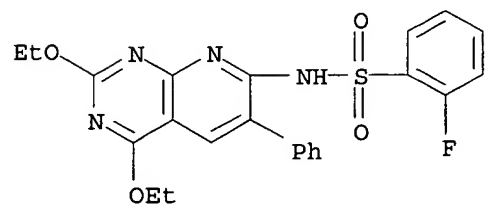
RN 124850-78-8 HCAPLUS

CN Benzenesulfonamide, N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]-2-fluoro- (9CI) (CA INDEX NAME)



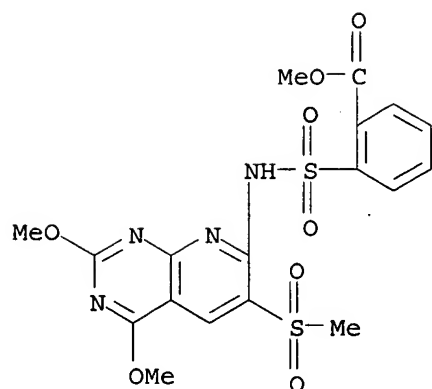
RN 124850-79-9 HCAPLUS

CN Benzenesulfonamide, N-(2,4-diethoxy-6-phenylpyrido[2,3-d]pyrimidin-7-yl)-2-fluoro- (9CI) (CA INDEX NAME)



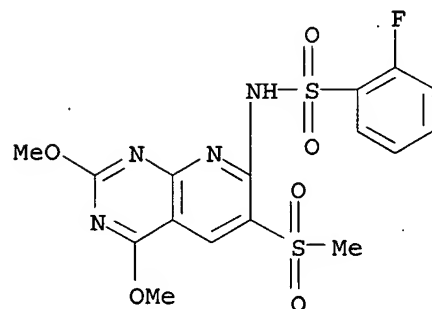
RN 124850-80-2 HCAPLUS

CN Benzoic acid, 2-[[[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



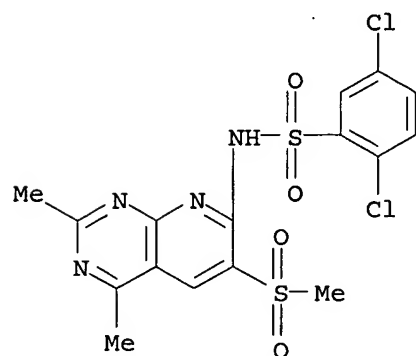
RN 124850-81-3 HCAPLUS

CN Benzenesulfonamide, N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]-2-fluoro- (9CI) (CA INDEX NAME)



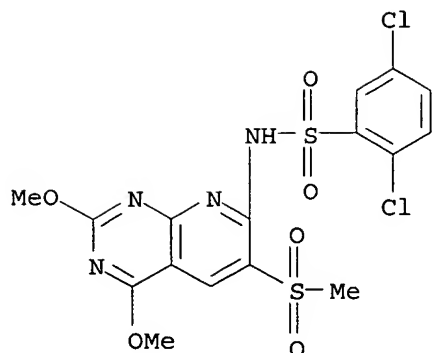
RN 125668-44-2 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-[2,4-dimethyl-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 125668-45-3 HCAPLUS

CN Benzenesulfonamide, 2,5-dichloro-N-[2,4-dimethoxy-6-(methylsulfonyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



IC ICM C07D471-04

ICS A01N043-90

ICI C07D471-04, C07D221-00; C07D471-04, C07D239-00, C07D221-00;
C07D471-04, C07D241-00, C07D221-00

CC 28-16 (Heterocyclic Compounds (More Than One Hetero
Atom))

Section cross-reference(s): 5

IT 124850-82-4P

(preparation and acylation of, by dichlorobenzenesulfonyl chloride,
in preparation of herbicide)

IT	124800-71-1P	124800-72-2P	124800-73-3P	124800-74-4P
	124800-75-5P	124800-76-6P	124800-77-7P	124800-78-8P
	124800-79-9P	124800-80-2P	124800-81-3P	124800-82-4P
	124800-83-5P	124800-84-6P	124800-85-7P	124800-86-8P
	124800-87-9P	124800-88-0P	124800-89-1P	124800-90-4P
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	124800-99-3P	124801-00-9P	124801-01-0P	124801-02-1P
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	124801-99-6P	124802-00-2P	124802-01-3P	124802-02-4P

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 124850-74-4P 124850-75-5P 124850-76-6P 124850-77-7P
 124850-78-8P 124850-79-9P 124850-80-2P
 124850-81-3P 124858-36-2P 125668-43-1P
 125668-44-2P 125668-45-3P

(preparation of, as herbicide)

L36 ANSWER 35 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:114811 HCAPLUS

DOCUMENT NUMBER: 110:114811

TITLE: Synthesis of isoselenazolo- or
isothiazolo[4,3-e][1,4]diazepines

AUTHOR(S): Ueda, Taisei; Kato, Yuzo; Sakakibara, Jinsaku;
Murata, Mitsuo

CORPORATE SOURCE: Fac. Pharm. Sci., Nagoya City Univ., Nagoya,
467, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1988), 36(8), 2902-8

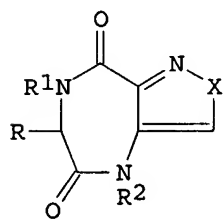
CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

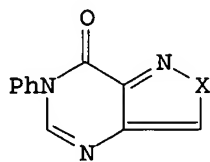
LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:114811

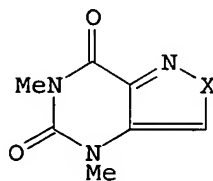
GI



I



II



III

AB Two novel classes of heterocycles, isoselenazolo[4,3-

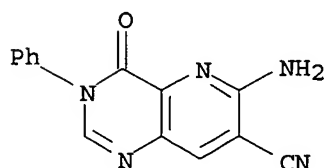
e] [1,4]diazepines I (X = Se, R = H, Me, Et, R1 = Ph, R2 = H, Me; R1 = R2 = Me) and isothiazolo[4,3-e] [1,4]diazepines I (X = S, R = H, Me, Et, R1 = Ph, R2 = H, Me; R1 = R2 = Me) were synthesized from 7-oxo-6-phenyl-6H-isoselenazolo (or -isothiazolo) [4,3-d]pyrimidines II (X = S, Se) and 4,6-dimethyl-5,7-dioxo-4,5,6,7-tetrahydroisoselenazolo (or isothiazolo) [4,3-d]pyrimidines III (X = S, Se). Some I were tested for antitumor activity and were inactive.

IT 99389-15-8P

(preparation of)

RN 99389-15-8 HCAPLUS

CN Pyrido[3,2-d]pyrimidine-7-carbonitrile, 6-amino-3,4-dihydro-4-oxo-3-phenyl- (9CI) (CA INDEX NAME)



CC 28-22 (Heterocyclic Compounds (More Than One Hetero Atom))

IT 99389-15-8P 119452-01-6P 119452-02-7P 119452-05-0P
 119452-06-1P 119452-07-2P 119452-08-3P 119452-09-4P
 119452-10-7P 119452-11-8P 119452-12-9P 119452-13-0P
 119452-14-1P 119452-21-0P 119452-22-1P 119452-23-2P
 119452-24-3P 119452-25-4P
 (preparation of)

L36 ANSWER 36 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:590346 HCAPLUS

DOCUMENT NUMBER: 109:190346

TITLE: Pyrido[2,3-d]pyrimidines and pyrido[2,3-d; 5-d']dipyrimidines as potential chemotherapeutic agents. VIII

AUTHOR(S): Ram, Vishnu J.; Vanden Berghe, D. A.; Vlietinck, A. J.

CORPORATE SOURCE: Dep. Chem., S. C. Coll. Ballia, Ballia, India

SOURCE: Journal of Heterocyclic Chemistry (1988), 25(1), 217-19

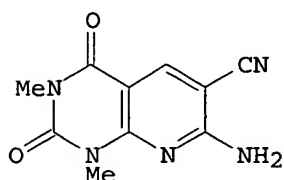
CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

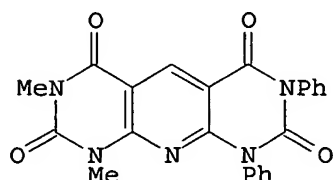
LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:190346

GI



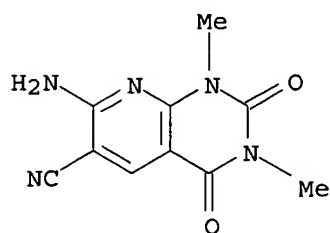
II



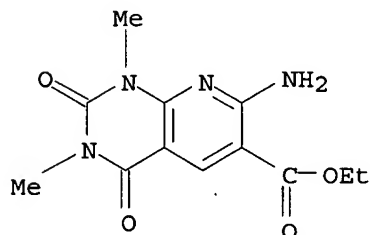
III

IT 17789-33-2P 84725-60-0P 117290-57-0P
(preparation of)

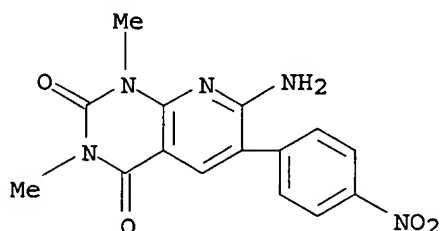
CN Pyrido[2,3-d]pyrimidine-6-carbonitrile, 7-amino-1,2,3,4-tetrahydro-
1,3-dimethyl-2,4-dioxo- (8CI, 9CI) (CA INDEX NAME)



CN Pyrido[2,3-d]pyrimidine-6-carboxylic acid, 7-amino-1,2,3,4-tetrahydro-1,3-dimethyl-2,4-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



CN Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 7-amino-1,3-dimethyl-6-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
ST pyridopyrimidinedione prepn bactericide **fungicide**
virucide; pyridodipyrimidine prepn bactericide **fungicide**
virucide; dimethylaminomethyleneiminodimethyluracil

cyclocondensation active methylene compd
 IT Bactericides, Disinfectants, and Antiseptics
 Fungicides and Fungistats
 Virucides and Virustats
 (pyridopyrimidines and pyridodipyrimidines)
 IT 17789-33-2P 54660-80-9P 84725-60-0P
 117290-57-0P 117290-58-1P 117290-59-2P 117290-60-5P
 117290-61-6P 117290-62-7P 117290-63-8P 117290-64-9P
 (preparation of)

L36 ANSWER 37 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:89308 HCAPLUS

DOCUMENT NUMBER: 98:89308

TITLE: Antihypertensive activity of
 6-arylpyrido[2,3-d]pyrimidin-7-amine
 derivatives. 2. 7-Acyl amide analogs
 AUTHOR(S): Blankley, C. John; Bennett, Lawrence R.;
 Fleming, Robert W.; Smith, Ronald D.; Tessman,
 Deirdre K.; Kaplan, Harvey R.

CORPORATE SOURCE: Dep. Chem. Pharmacol., Warner-Lambert/Parke-
 Davis Pharm. Res. Div., Ann Arbor, MI, 48106,
 USA

SOURCE: Journal of Medicinal Chemistry (1983
), 26(3), 403-11

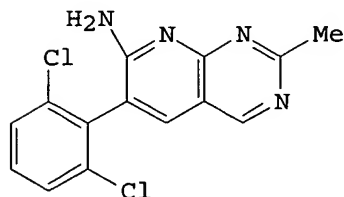
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 98:89308

GI



I

AB The effect of acylation with a variety of acids on the
 antihypertensive activity of the pyridopyrimidinamine I is
 reported, and structure-activity relationships are discussed.
 Although several of the compds. show good oral antihypertensive
 activity in the conscious, spontaneously hypertensive rat (SHR),
 their activity profile appears to differ from that of I in that
 the onset of action is shortened at doses that give comparable
 blood pressure lowering and the size of the effect is considerably
 greater at higher doses. A variety of urea, thiourea, guanidine,
 and amidine analogs also were prepared. Although many of these
 derivs. showed some antihypertensive effects orally in SHR, this
 activity was weaker and of shorter duration than that of I. Water
 solubilities and hydrolytic stabilities for 4 of the more active
 compds. were measured and suggest that these do not function as
 prodrugs of I.

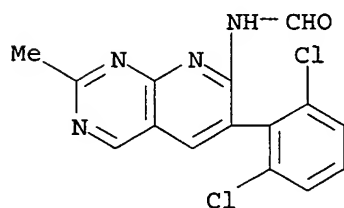
IT 77206-70-3P 77206-71-4P 77206-73-6P
 77206-74-7P 77206-75-8P 77206-76-9P
 77206-78-1P 77206-79-2P 77206-80-5P
 77206-81-6P 77206-82-7P 77206-84-9P

84279-04-9P 84279-05-0P 84279-06-1P
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 84279-44-7P 84279-45-8P

(preparation and antihypertensive activity of)

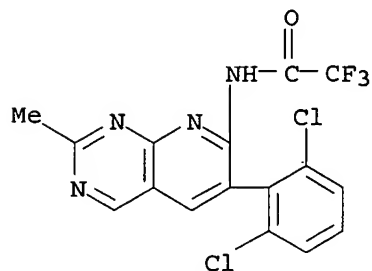
RN 77206-70-3 HCAPLUS

CN Formamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



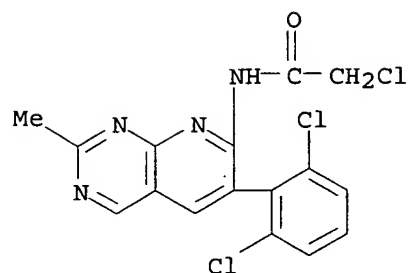
RN 77206-71-4 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



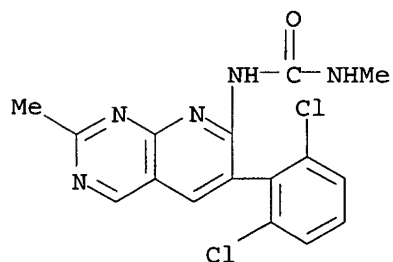
RN 77206-73-6 HCAPLUS

CN Acetamide, 2-chloro-N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



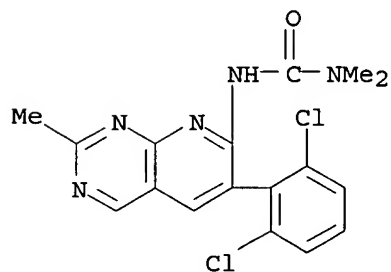
RN 77206-74-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl- (9CI) (CA INDEX NAME)



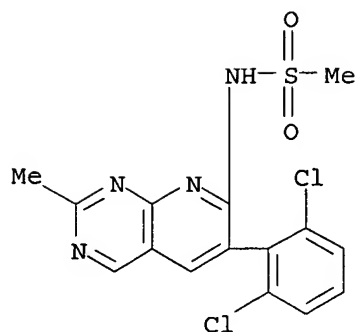
RN 77206-75-8 HCAPLUS

CN Urea, N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



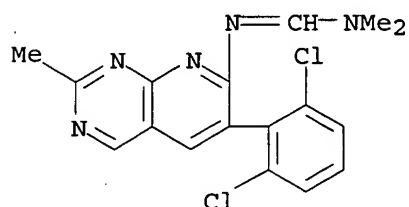
RN 77206-76-9 HCAPLUS

CN Methanesulfonamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



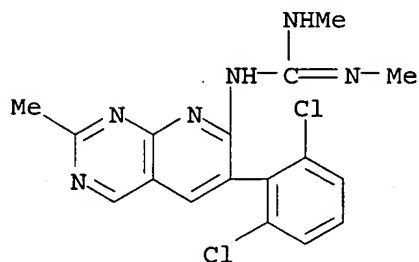
RN 77206-78-1 HCAPLUS

CN Methanimidamide, N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



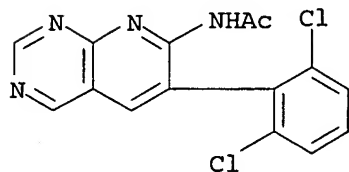
RN 77206-79-2 HCAPLUS

CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N',N''-dimethyl- (9CI) (CA INDEX NAME)



RN 77206-80-5 HCAPLUS

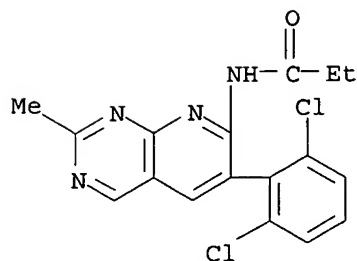
CN Acetamide, N-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 77206-81-6 HCAPLUS

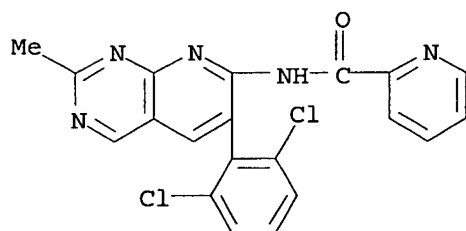
CN Propanamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



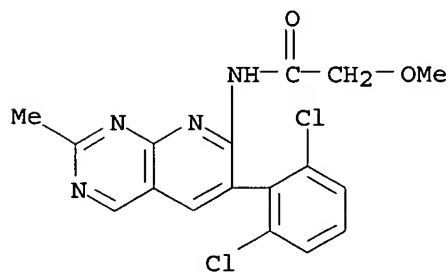
RN 77206-82-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



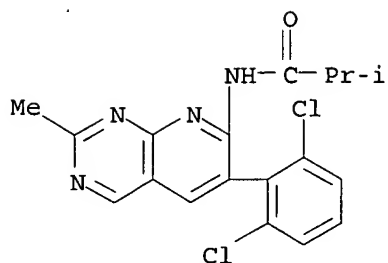
RN 77206-84-9 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-methoxy- (9CI) (CA INDEX NAME)



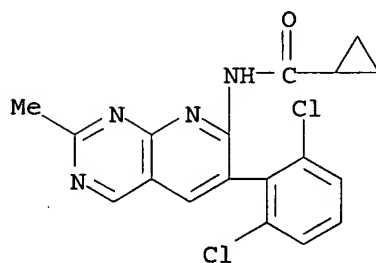
RN 84279-04-9 HCAPLUS

CN Propanamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-methyl- (9CI) (CA INDEX NAME)



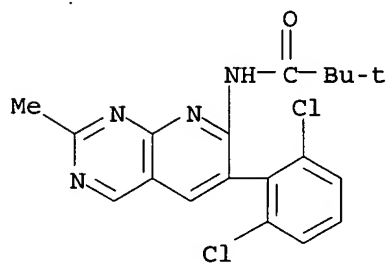
RN 84279-05-0 HCAPLUS

CN Cyclopropanecarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



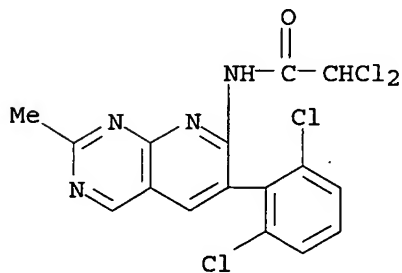
RN 84279-06-1 HCAPLUS

CN Propanamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

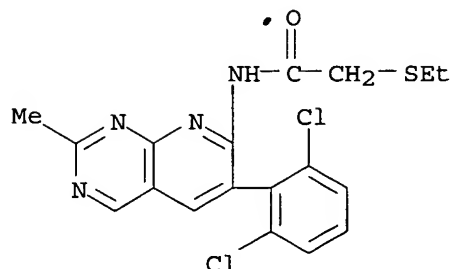


RN 84279-07-2 HCAPLUS

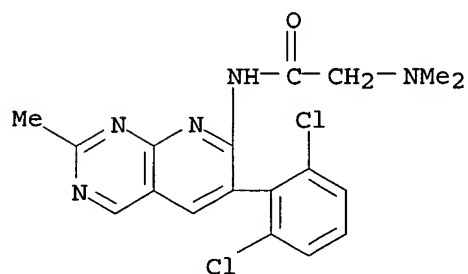
CN Acetamide, 2,2-dichloro-N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



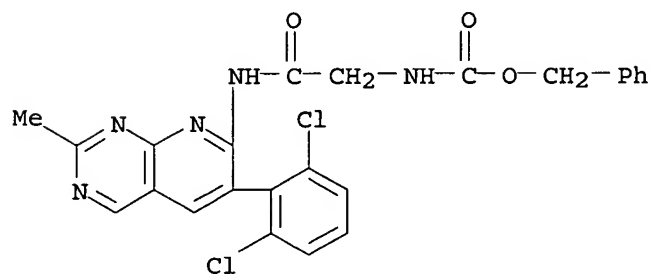
RN 84279-08-3 HCAPLUS
 CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-(ethylthio)- (9CI) (CA INDEX NAME)



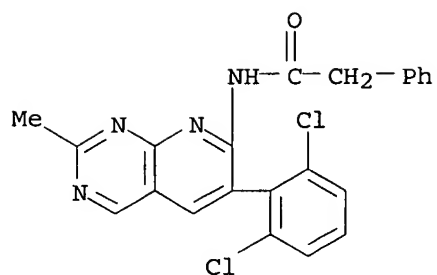
RN 84279-09-4 HCAPLUS
 CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-(dimethylamino)- (9CI) (CA INDEX NAME)



RN 84279-10-7 HCAPLUS
 CN Carbamic acid, [2-[[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]amino]-2-oxoethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

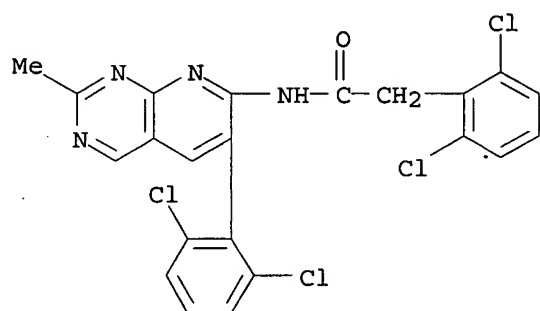


RN 84279-11-8 HCAPLUS
 CN Benzeneacetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



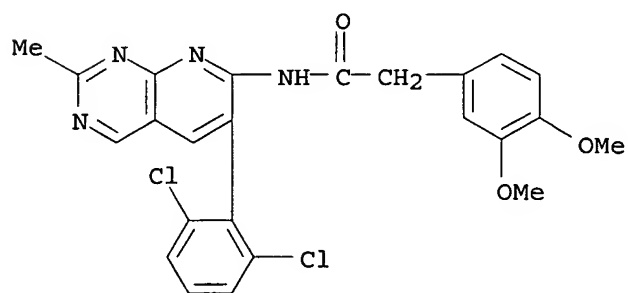
RN 84279-12-9 HCAPLUS

CN Benzeneacetamide, 2,6-dichloro-N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



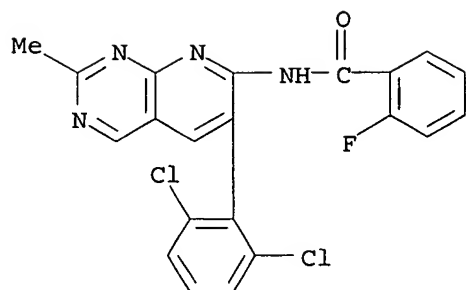
RN 84279-13-0 HCAPLUS

CN Benzeneacetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-3,4-dimethoxy- (9CI) (CA INDEX NAME)



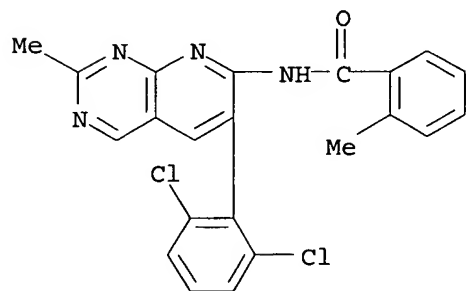
RN 84279-14-1 HCAPLUS

CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-fluoro- (9CI) (CA INDEX NAME)



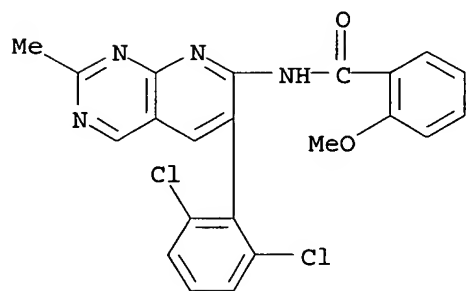
RN 84279-15-2 HCAPLUS

CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-methyl- (9CI) (CA INDEX NAME)



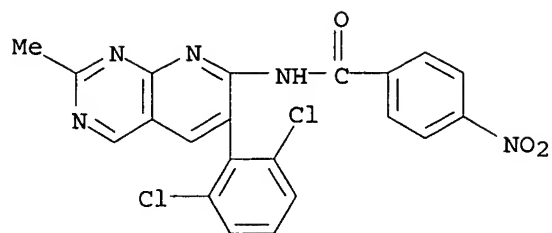
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CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-methoxy- (9CI) (CA INDEX NAME)



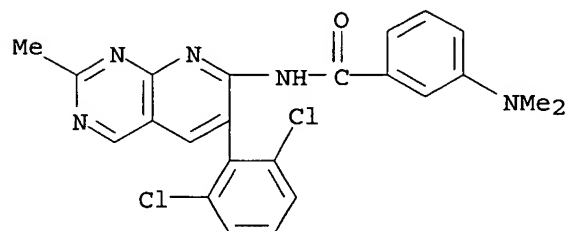
RN 84279-17-4 HCAPLUS

CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-4-nitro- (9CI) (CA INDEX NAME)



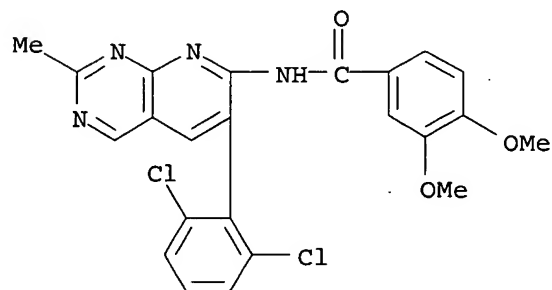
RN 84279-18-5 HCAPLUS

CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-3-(dimethylamino)- (9CI) (CA INDEX NAME)



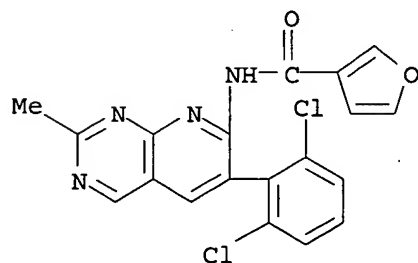
RN 84279-19-6 HCAPLUS

CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-3,4-dimethoxy- (9CI) (CA INDEX NAME)



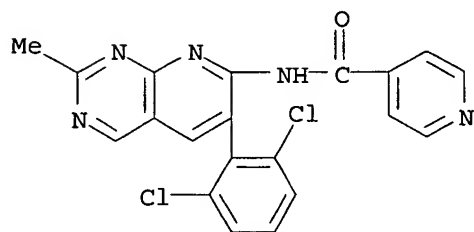
RN 84279-20-9 HCAPLUS

CN 3-Furancarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



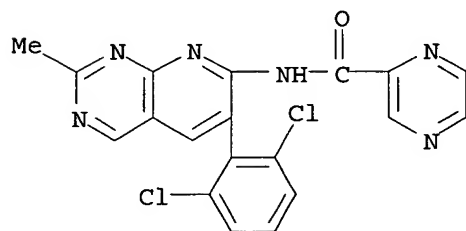
RN 84279-21-0 HCAPLUS

CN 4-Pyridinecarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



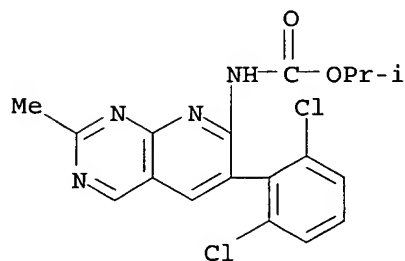
RN 84279-22-1 HCAPLUS

CN Pyrazinecarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



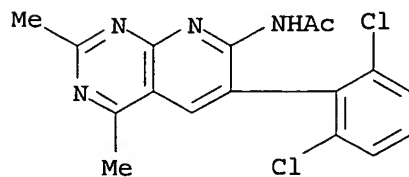
RN 84279-23-2 HCAPLUS

CN Carbamic acid, [6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 84279-26-5 HCAPLUS

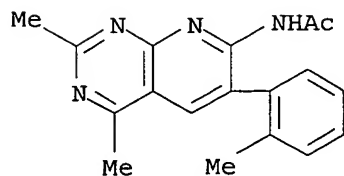
CN Acetamide, N-[6-(2,6-dichlorophenyl)-2,4-dimethylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 84279-27-6 HCAPLUS

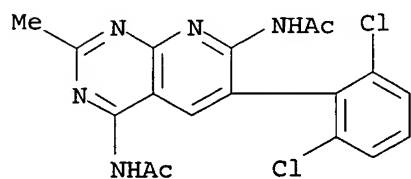
CN Acetamide, N-[2,4-dimethyl-6-(2-methylphenyl)pyrido[2,3-

d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



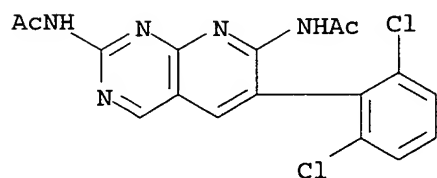
RN 84279-28-7 HCAPLUS

CN Acetamide, N,N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidine-4,7-diyl]bis- (9CI) (CA INDEX NAME)



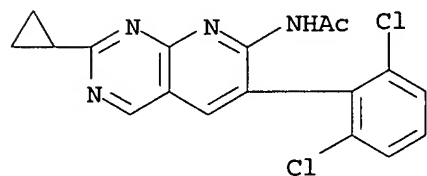
RN 84279-29-8 HCAPLUS

CN Acetamide, N,N'-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidine-2,7-diyl]bis- (9CI) (CA INDEX NAME)



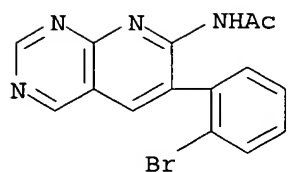
RN 84279-30-1 HCAPLUS

CN Acetamide, N-[2-cyclopropyl-6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



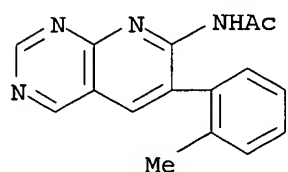
RN 84279-31-2 HCAPLUS

CN Acetamide, N-[6-(2-bromophenyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



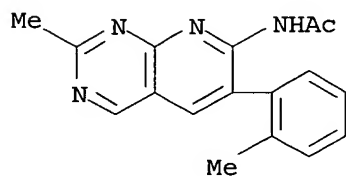
RN 84279-32-3 HCAPLUS

CN Acetamide, N-[6-(2-methylphenyl)pyrido[2,3-d]pyrimidin-7-yl] -
(9CI) (CA INDEX NAME)



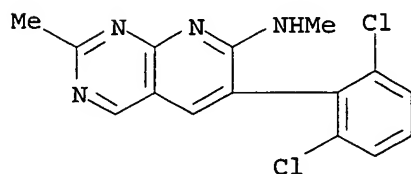
RN 84279-33-4 HCAPLUS

CN Acetamide, N-[2-methyl-6-(2-methylphenyl)pyrido[2,3-d]pyrimidin-7-yl] - (9CI) (CA INDEX NAME)



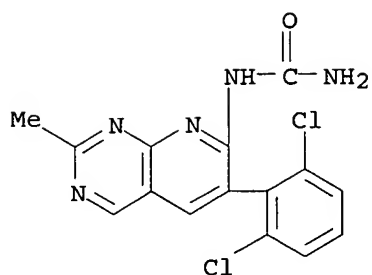
RN 84279-35-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-N,2-dimethyl- (9CI) (CA INDEX NAME)



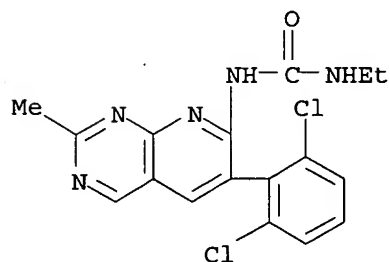
RN 84279-37-8 HCAPLUS

CN Urea, [6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl] -
(9CI) (CA INDEX NAME)



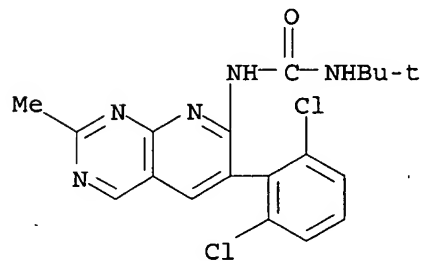
RN 84279-38-9 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



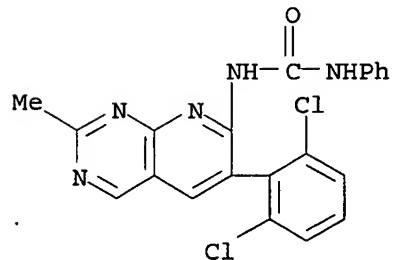
RN 84279-39-0 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

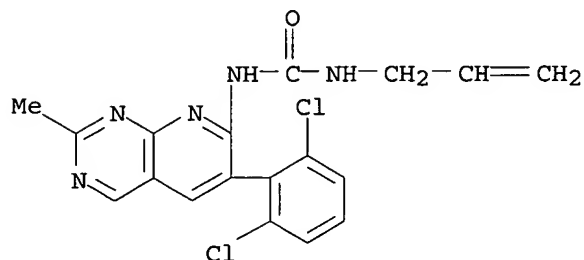


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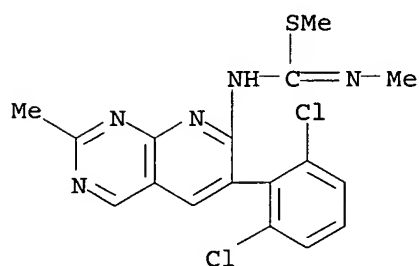
CN Urea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



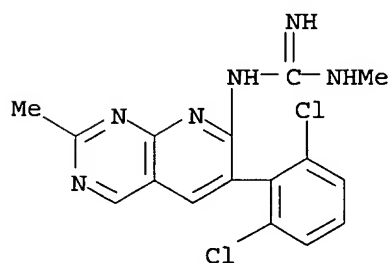
RN 84279-41-4 HCAPLUS
 CN Urea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-2-propenyl- (9CI) (CA INDEX NAME)



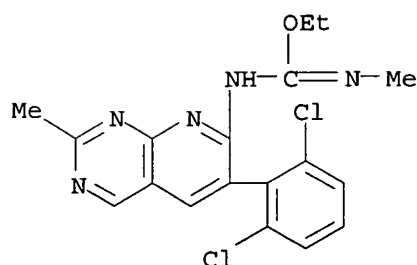
RN 84279-42-5 HCAPLUS
 CN Carbamimidothioic acid, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 84279-43-6 HCAPLUS
 CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl- (9CI) (CA INDEX NAME)

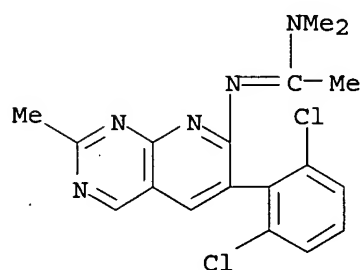


RN 84279-44-7 HCAPLUS
 CN Carbamimidic acid, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 84279-45-8 HCAPLUS

CN Ethanimidamide, N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

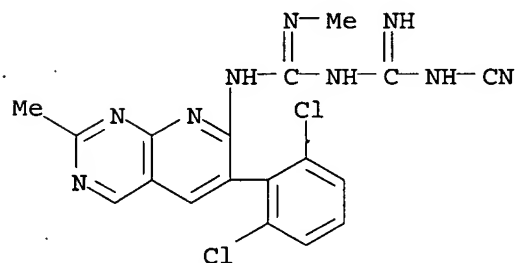


IT 84279-46-9P

(preparation of)

RN 84279-46-9 HCAPLUS

CN Guanidine, N-[(cyanoamino)iminomethyl]-N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N''-methyl- (9CI) (CA INDEX NAME)

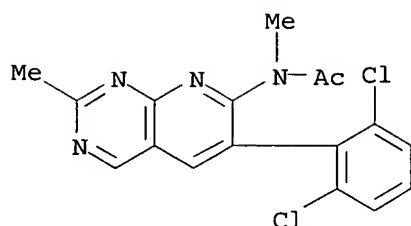


IT 84279-24-3P

(preparation, deacetylation, and antihypertensive activity of)

RN 84279-24-3 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N-methyl- (9CI) (CA INDEX NAME)

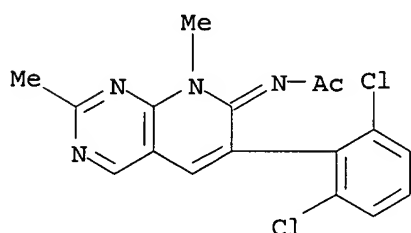


IT 84279-25-4P

(preparation, hydrolysis, and antihypertensive activity of)

RN 84279-25-4 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2,8-dimethylpyrido[2,3-d]pyrimidin-7(8H)-ylidene]- (9CI) (CA INDEX NAME)

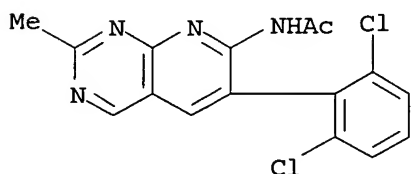


IT 77206-69-0P 77206-77-0P

(preparation, methylation, and antihypertensive activity of)

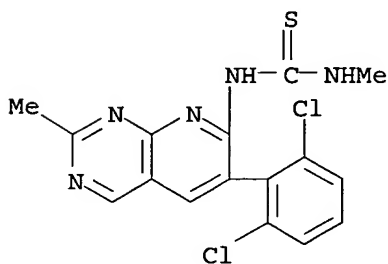
RN 77206-69-0 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 77206-77-0 HCAPLUS

CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl- (9CI) (CA INDEX NAME)



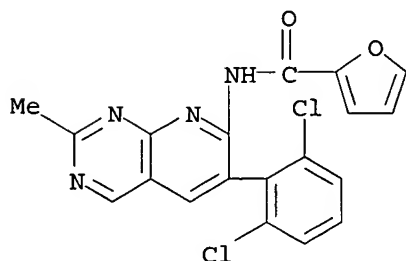
IT 77206-72-5P 77206-83-8P 77206-85-0P

77206-86-1P

(preparation, stability, and antihypertensive activity of)

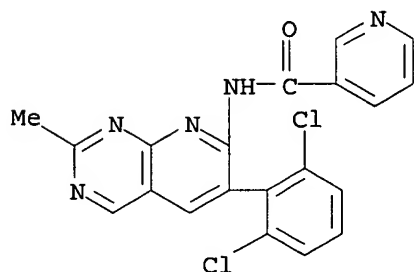
RN 77206-72-5 HCAPLUS

CN 2-Furancarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



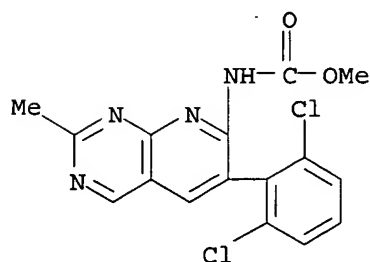
RN 77206-83-8 HCAPLUS

CN 3-Pyridinecarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



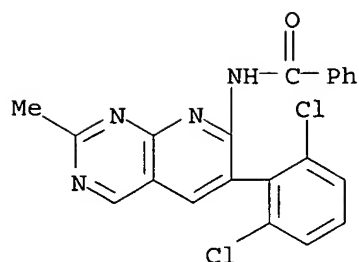
RN 77206-85-0 HCAPLUS

CN Carbamic acid, [6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-, methyl ester (9CI) (CA INDEX NAME)



RN 77206-86-1 HCAPLUS

CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

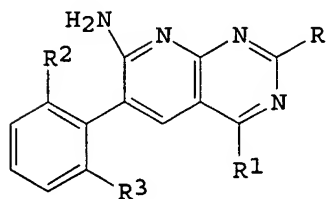
Section cross-reference(s): 1

IT 77206-70-3P 77206-71-4P 77206-73-6P
 77206-74-7P 77206-75-8P 77206-76-9P
 77206-78-1P 77206-79-2P 77206-80-5P
 77206-81-6P 77206-82-7P 77206-84-9P
 84279-04-9P 84279-05-0P 84279-06-1P
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 84279-43-6P 84279-44-7P 84279-45-8P
 (preparation and antihypertensive activity of)
 IT 84279-46-9P
 (preparation of)
 IT 84279-24-3P
 (preparation, deacetylation, and antihypertensive activity of)
 IT 84279-25-4P
 (preparation, hydrolysis, and antihypertensive activity of)
 IT 77206-69-0P 77206-77-0P 84279-36-7P
 (preparation, methylation, and antihypertensive activity of)
 IT 77206-72-5P 77206-83-8P 77206-85-0P
 77206-86-1P
 (preparation, stability, and antihypertensive activity of)

L36 ANSWER 38 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:515588 HCAPLUS
 DOCUMENT NUMBER: 95:115588
 TITLE: 6-Substituted-arylpyrido[2,3-d]pyrimidin-7-
 amines and derivatives
 INVENTOR(S): Blankley, Clifton J.; Bennett, Lawrence R.
 PATENT ASSIGNEE(S): Warner-Lambert Co. , USA
 SOURCE: U.S., 10 pp. Cont.-in-part of U.S. Ser. No.
 30,195, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 4271164	A	19810602	US 1980-123781	1980 0311
ZA 8001759	A	19810325	<-- ZA 1980-1759	1980 0325
EP 18151	A1	19801029	<-- EP 1980-301107	1980 0408
EP 18151	B1	19840125	<--	
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AT 5968	E	19840215	AT 1980-301107	1980 0408
AU 8057333	A1	19801023	<-- AU 1980-57333	1980 0410
JP 55160776	A2	19801213	<-- JP 1980-50208	1980 0415
JP 63004538	B4	19880129	<--	
PRIORITY APPLN. INFO.:			US 1979-30195	A2 1979 0416
			<-- US 1980-123781	A 1980 0311
			<-- EP 1980-301107	A 1980 0408
			<--	
OTHER SOURCE(S):		CASREACT 95:115588		
GI				



AB Pyridopyrimidinamines I (R, R1 = H, Me; R2 = halo, Me, Et; R3 = H, Cl, Br, Me) were prepared. Thus, hydrogenation of 4-amino-2-methylpyrimidine-5-carbonitrile followed by treatment with 2,6-Cl₂C₆H₃CH₂CN gave I (R = Me, R1 = H, R2 = R3 = Cl) (II).

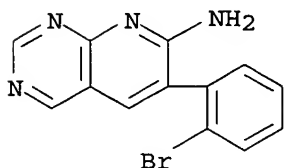
The reaction of 2-ClC₆H₄CH₂CN and 4-amino-2-methylpyrimidine-5-carboxaldehyde gave I (R = Me, R₁ = R₂ = H, R₃ = Cl). II lowered the blood pressure in rats 30%.

IT 76574-55-5P 76574-56-6P 76574-57-7P
76574-58-8P 76574-60-2P 76574-61-3P
76574-62-4P 76574-64-6P 76574-66-8P
76574-69-1P 76574-71-5P 76574-75-9P
76574-78-2P 76574-81-7P 76574-82-8P
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76574-92-0P 76587-30-9P 77206-69-0P
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77206-85-0P 77206-86-1P 78859-69-5P

(preparation and antihypertensive activity of)

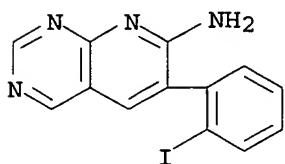
RN 76574-55-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



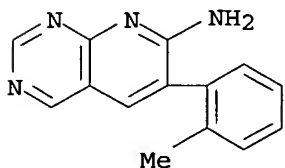
RN 76574-56-6 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-iodophenyl)- (9CI) (CA INDEX NAME)



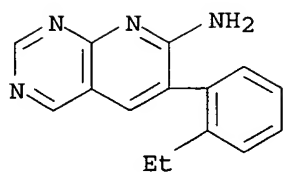
RN 76574-57-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-methylphenyl)- (9CI) (CA INDEX NAME)



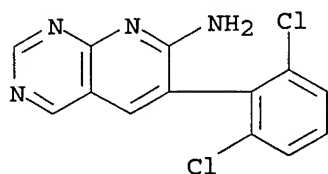
RN 76574-58-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-ethylphenyl)- (9CI) (CA INDEX NAME)



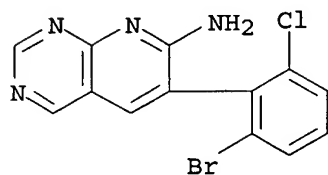
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)



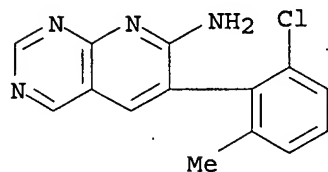
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromo-6-chlorophenyl)- (9CI) (CA INDEX NAME)



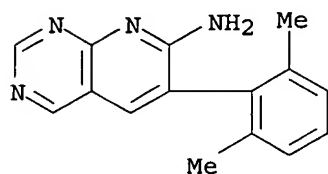
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-chloro-6-methylphenyl)- (9CI) (CA INDEX NAME)

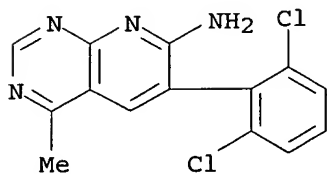


RN 76574-64-6 HCAPLUS

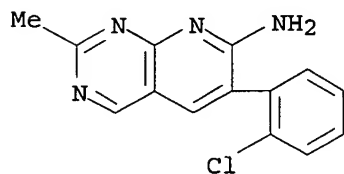
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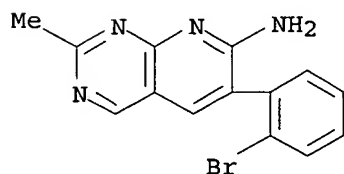
RN 76574-66-8 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-4-methyl-
 (9CI) (CA INDEX NAME)



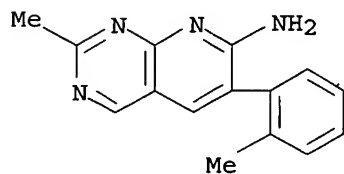
RN 76574-69-1 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-chlorophenyl)-2-methyl- (9CI)
 (CA INDEX NAME)



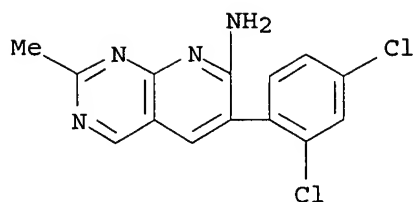
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 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromophenyl)-2-methyl- (9CI)
 (CA INDEX NAME)



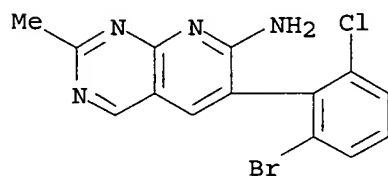
RN 76574-75-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-(2-methylphenyl)- (9CI)
 (CA INDEX NAME)



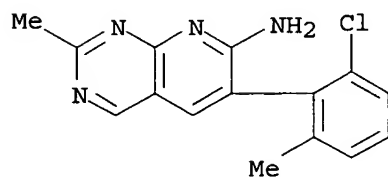
RN 76574-78-2 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,4-dichlorophenyl)-2-methyl-
 (9CI) (CA INDEX NAME)



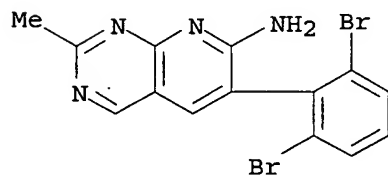
RN 76574-81-7 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromo-6-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)



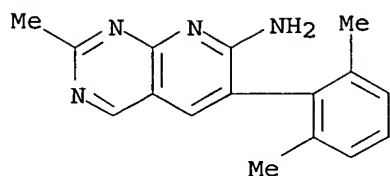
RN 76574-82-8 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-chloro-6-methylphenyl)-2-methyl- (9CI) (CA INDEX NAME)



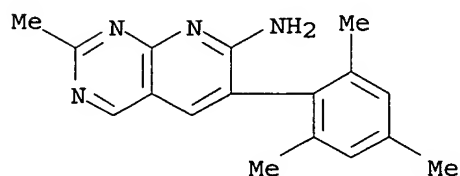
RN 76574-83-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dibromophenyl)-2-methyl- (9CI) (CA INDEX NAME)



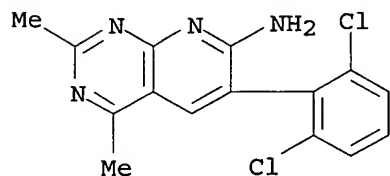
RN 76574-87-3 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dimethylphenyl)-2-methyl- (9CI) (CA INDEX NAME)



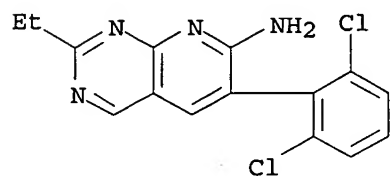
RN 76574-88-4 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-(2,4,6-trimethylphenyl)-
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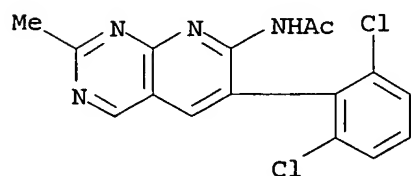
RN 76574-92-0 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2,4-
 dimethyl- (9CI) (CA INDEX NAME)



RN 76587-30-9 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2-ethyl-
 (9CI) (CA INDEX NAME)

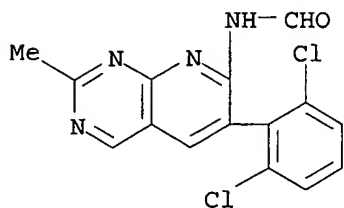


RN 77206-69-0 HCAPLUS
 CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-
 d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



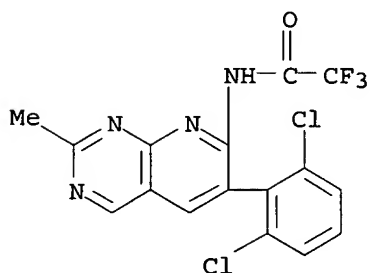
RN 77206-70-3 HCAPLUS

CN Formamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



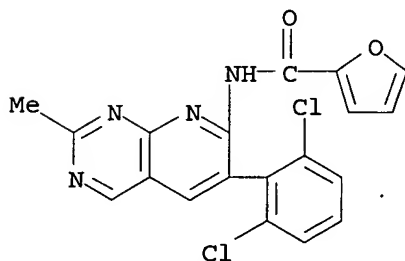
RN 77206-71-4 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



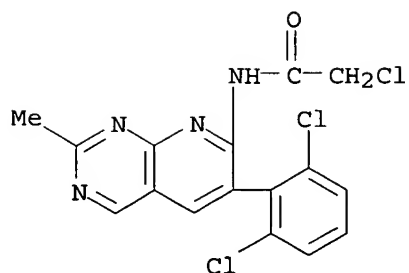
RN 77206-72-5 HCAPLUS

CN 2-Furancarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



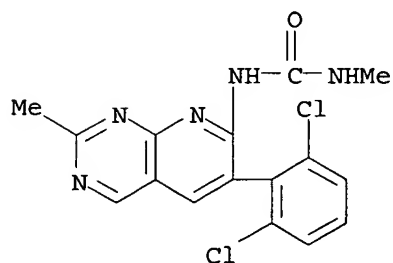
RN 77206-73-6 HCAPLUS

CN Acetamide, 2-chloro-N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



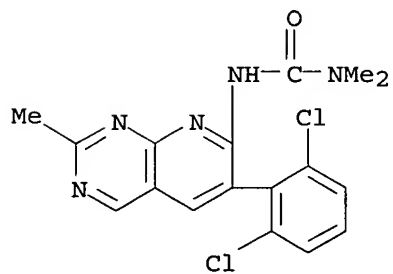
RN 77206-74-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl- (9CI) (CA INDEX NAME)



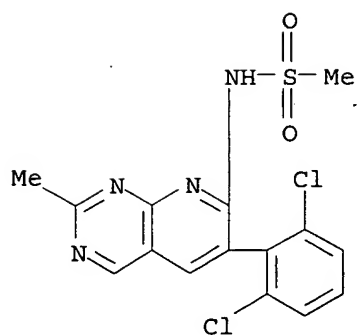
RN 77206-75-8 HCAPLUS

CN Urea, N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



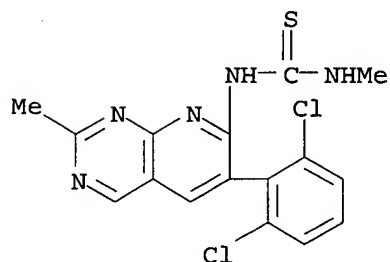
RN 77206-76-9 HCAPLUS

CN Methanesulfonamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



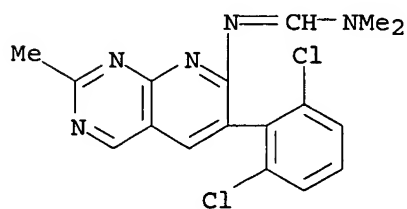
RN 77206-77-0 HCAPLUS

CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl- (9CI) (CA INDEX NAME)



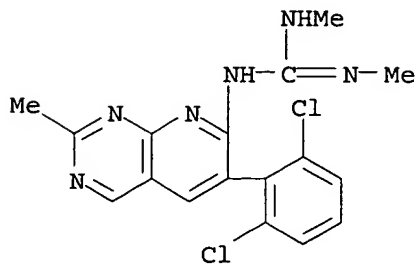
RN 77206-78-1 HCAPLUS

CN Methanimidamide, N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



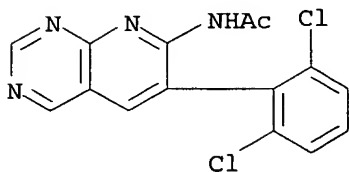
RN 77206-79-2 HCAPLUS

CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N',N'-dimethyl- (9CI) (CA INDEX NAME)



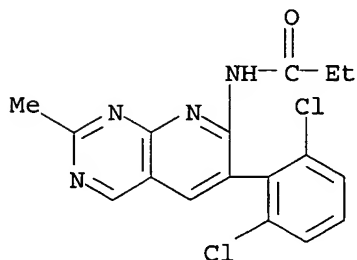
RN 77206-80-5 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



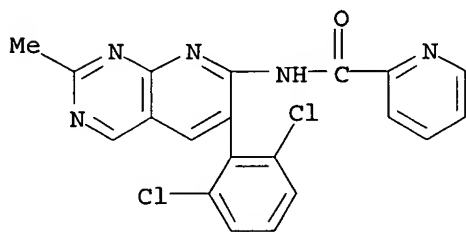
RN 77206-81-6 HCAPLUS

CN Propanamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



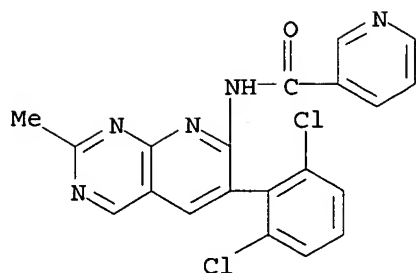
RN 77206-82-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



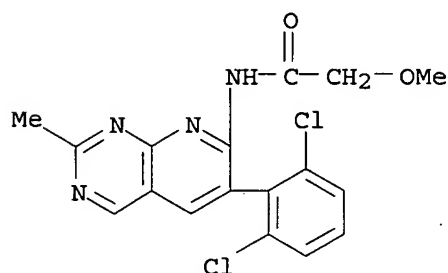
RN 77206-83-8 HCAPLUS

CN 3-Pyridinecarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-(9CI) (CA INDEX NAME)



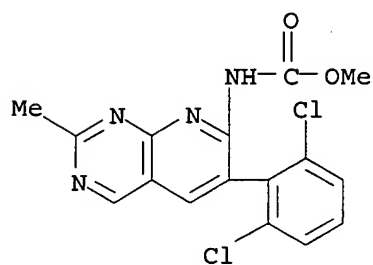
RN 77206-84-9 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-methoxy- (9CI) (CA INDEX NAME)



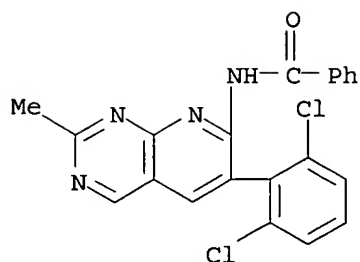
RN 77206-85-0 HCAPLUS

CN Carbamic acid, [6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-, methyl ester (9CI) (CA INDEX NAME)

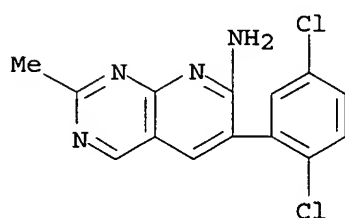


RN 77206-86-1 HCAPLUS

CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 78859-69-5 HCAPLUS
 CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,5-dichlorophenyl)-2-methyl-
 (9CI) (CA INDEX NAME)



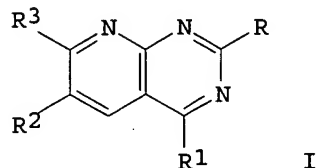
IC C07D471-04; A61K031-495
 INCL 424251000
 CC 28-17 (Heterocyclic Compounds (More Than One Hetero
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 (preparation and antihypertensive activity of)

L36 ANSWER 39 OF 39 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:156959 HCAPLUS
 DOCUMENT NUMBER: 94:156959
 TITLE: 6-Substituted-arylpyrido[2,3-d]pyrimidin-7-
 amines, derivatives, salts and pharmaceutical
 compositions containing them
 INVENTOR(S): Blankley, Clifton John; Bennett, Lawrence Ray
 PATENT ASSIGNEE(S): Warner-Lambert Co., USA
 SOURCE: Eur. Pat. Appl., 42 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 18151	A1	19801029	EP 1980-301107	1980 0408
EP 18151	B1	19840125	<--	
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4271164	A	19810602	US 1980-123781	1980 0311
AT 5968	E	19840215	AT 1980-301107	1980 0408
PRIORITY APPLN. INFO.:			US 1979-30195	A 1979 0416
			US 1980-123781	A 1980 0311
			EP 1980-301107	A 1980 0408

OTHER SOURCE(S):
GI

MARPAT 94:156959



AB Pyridopyrimidines I (R, R1 = H, alkyl; R2 = substituted Ph; R3 = optionally substituted NH2) were prepared. Thus 4-amino-2-methyl-5-pyrimidinecarbonitrile was hydrolyzed and reduced to the aldehyde which was condensed with 2,6-Cl2C6H3CH2CN to give I (R = Me, R1 = H, R2 = 2,6-Cl2C6H3, R3 = NH2, II). At 50 mg/kg orally in spontaneously hypertensive rats II caused a decrease in blood pressure >30%.

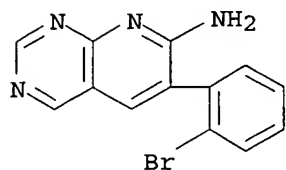
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77206-79-2P 77206-80-5P 77206-81-6P
77206-82-7P 77206-84-9P 77206-85-0P
77206-86-1P

(preparation and antihypertensive activity of)

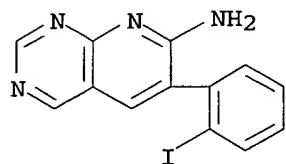
RN 76574-55-5 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



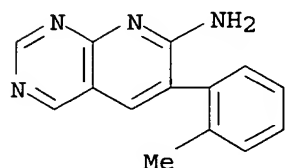
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-iodophenyl)- (9CI) (CA INDEX NAME)



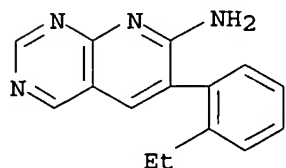
RN 76574-57-7 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-methylphenyl)- (9CI) (CA INDEX NAME)



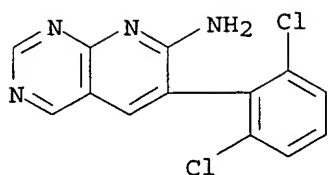
RN 76574-58-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-ethylphenyl)- (9CI) (CA INDEX NAME)



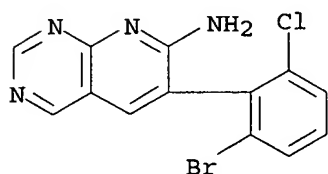
RN 76574-60-2 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)



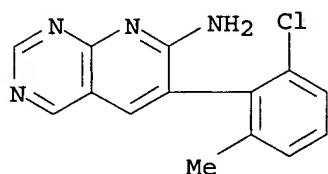
RN 76574-61-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromo-6-chlorophenyl)- (9CI)
(CA INDEX NAME)



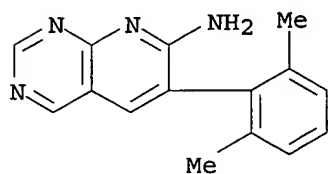
RN 76574-62-4 HCAPLUS

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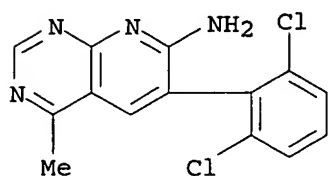
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dimethylphenyl)- (9CI) (CA
INDEX NAME)

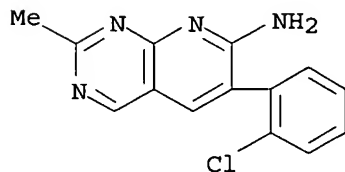


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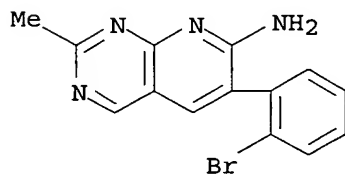
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-4-methyl-
(9CI) (CA INDEX NAME)



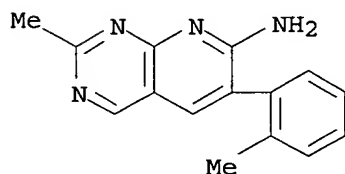
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CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-chlorophenyl)-2-methyl- (9CI)
(CA INDEX NAME)



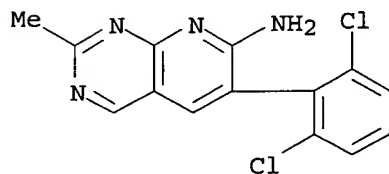
RN 76574-71-5 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromophenyl)-2-methyl- (9CI)
(CA INDEX NAME)



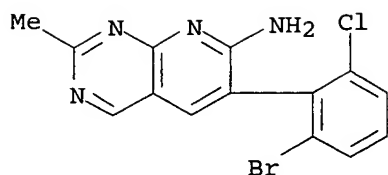
RN 76574-75-9 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-(2-methylphenyl)- (9CI)
(CA INDEX NAME)



RN 76574-80-6 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

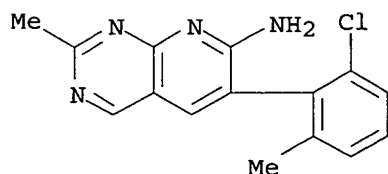


RN 76574-81-7 HCAPLUS
CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-bromo-6-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)



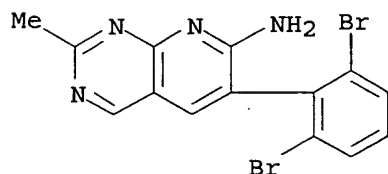
RN 76574-82-8 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2-chloro-6-methylphenyl)-2-methyl- (9CI) (CA INDEX NAME)



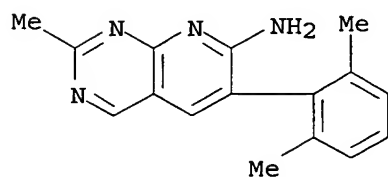
RN 76574-83-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dibromophenyl)-2-methyl- (9CI) (CA INDEX NAME)



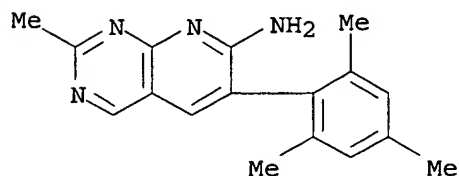
RN 76574-87-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dimethylphenyl)-2-methyl- (9CI) (CA INDEX NAME)



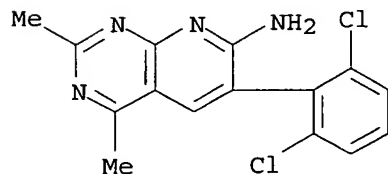
RN 76574-88-4 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 2-methyl-6-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



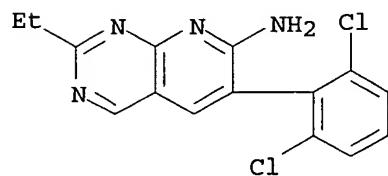
RN 76574-92-0 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2,4-dimethyl- (9CI) (CA INDEX NAME)



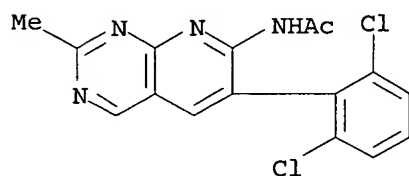
RN 76587-30-9 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-7-amine, 6-(2,6-dichlorophenyl)-2-ethyl- (9CI) (CA INDEX NAME)



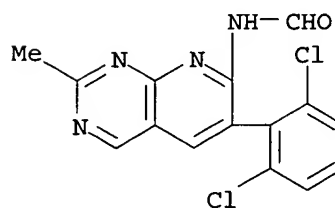
RN 77206-69-0 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



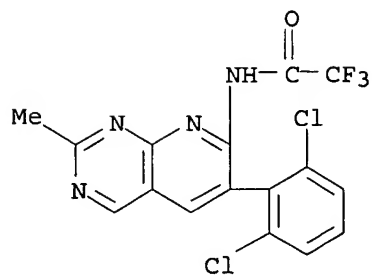
RN 77206-70-3 HCAPLUS

CN Formamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



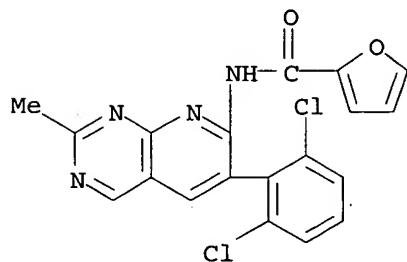
RN 77206-71-4 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



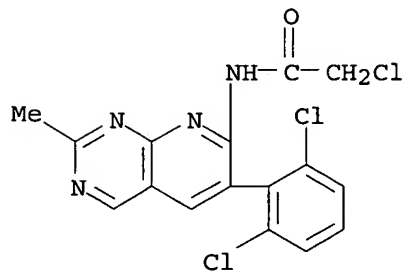
RN 77206-72-5 HCAPLUS

CN 2-Furancarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



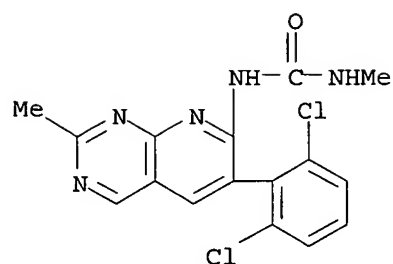
RN 77206-73-6 HCAPLUS

CN Acetamide, 2-chloro-N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



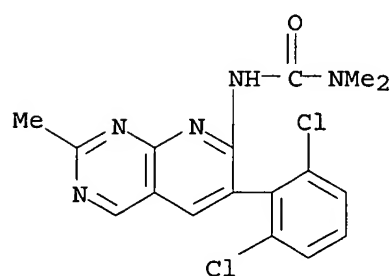
RN 77206-74-7 HCAPLUS

CN Urea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl- (9CI) (CA INDEX NAME)



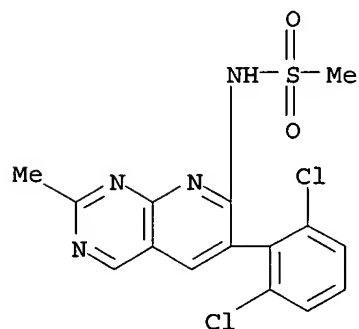
RN 77206-75-8 HCAPLUS

CN Urea, N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



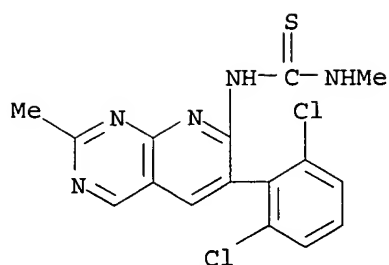
RN 77206-76-9 HCAPLUS

CN Methanesulfonamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



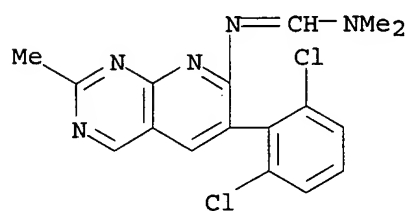
RN 77206-77-0 HCAPLUS

CN Thiourea, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N'-methyl- (9CI) (CA INDEX NAME)



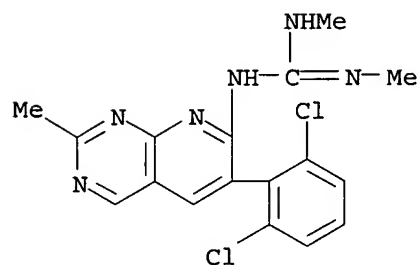
RN 77206-78-1 HCAPLUS

CN Methanimidamide, N'-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



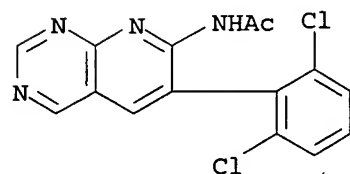
RN 77206-79-2 HCAPLUS

CN Guanidine, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-N',N''-dimethyl- (9CI) (CA INDEX NAME)



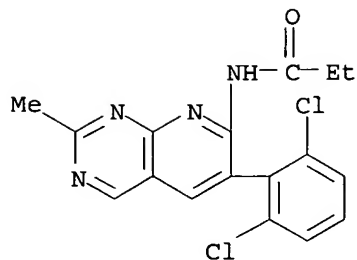
RN 77206-80-5 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)pyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



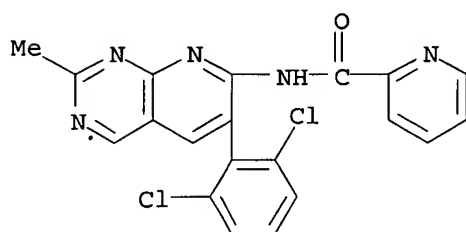
RN 77206-81-6 HCAPLUS

CN Propanamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



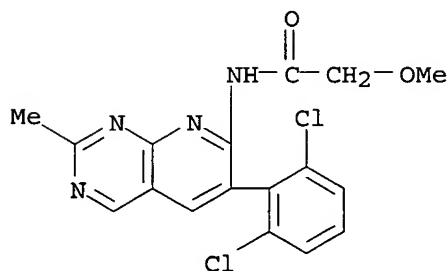
RN 77206-82-7 HCAPLUS

CN 2-Pyridinecarboxamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



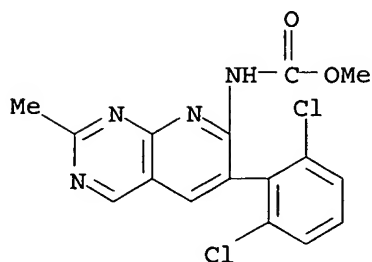
RN 77206-84-9 HCAPLUS

CN Acetamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-2-methoxy- (9CI) (CA INDEX NAME)



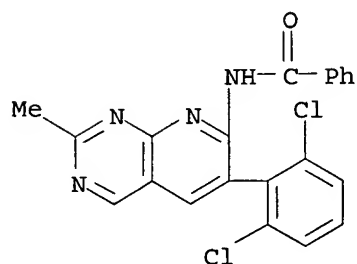
RN 77206-85-0 HCAPLUS

CN Carbamic acid, [6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]-, methyl ester (9CI) (CA INDEX NAME)



RN 77206-86-1 HCAPLUS

CN Benzamide, N-[6-(2,6-dichlorophenyl)-2-methylpyrido[2,3-d]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



IT 77206-88-3P

(preparation of)

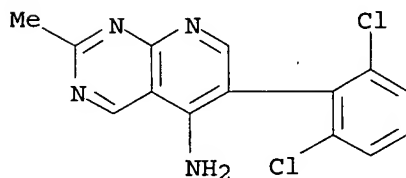
RN 77206-88-3 HCAPLUS

CN Pyrido[2,3-d]pyrimidin-5-amine, 6-(2,6-dichlorophenyl)-2-methyl-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 77206-87-2

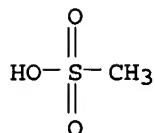
CMF C14 H10 Cl2 N4



CM 2

CRN 75-75-2

CMF C H4 O3 S



IC C07D471-04; A61K031-505; C07D239-42; C07C025-02

CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))

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 76574-58-8P 76574-60-2P 76574-61-3P
 76574-62-4P 76574-64-6P 76574-66-8P
 76574-69-1P 76574-71-5P 76574-75-9P
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(preparation and antihypertensive activity of)

IT 77206-88-3P

(preparation of)